

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	3	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	4	OCT 07	Multiple databases enhanced for more flexible patent number searching
NEWS	5	OCT 22	Current-awareness alert (SDI) setup and editing enhanced
NEWS	6	OCT 22	WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT Applications
NEWS	7	OCT 24	CHEMLIST enhanced with intermediate list of pre-registered REACH substances
NEWS	8	NOV 21	CAS patent coverage to include exemplified prophetic substances identified in English-, French-, German-, and Japanese-language basic patents from 2004-present
NEWS	9	NOV 26	MARPAT enhanced with FSORT command
NEWS	10	NOV 26	MEDLINE year-end processing temporarily halts availability of new fully-indexed citations
NEWS	11	NOV 26	CHEMSAFE now available on STN Easy
NEWS	12	NOV 26	Two new SET commands increase convenience of STN searching
NEWS	13	DEC 01	ChemPort single article sales feature unavailable
NEWS	14	DEC 12	GBFULL now offers single source for full-text coverage of complete UK patent families
NEWS	15	DEC 17	Fifty-one pharmaceutical ingredients added to PS
NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3, AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.			
NEWS HOURS	STN Operating Hours Plus Help Desk Availability		
NEWS LOGIN	Welcome Banner and News Items		
NEWS IPC8	For general information regarding STN implementation of IPC 8		

Enter NEWS followed by the item number or name to see news on that
specific topic.

All use of STN is subject to the provisions of the STN Customer
agreement. Please note that this agreement limits use to scientific
research. Use for software development or design or implementation
of commercial gateways or other similar uses is prohibited and may
result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:23:47 ON 30 DEC 2008

=> b reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:24:03 ON 30 DEC 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

DICTIONARY FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>Testing the current file.... screen

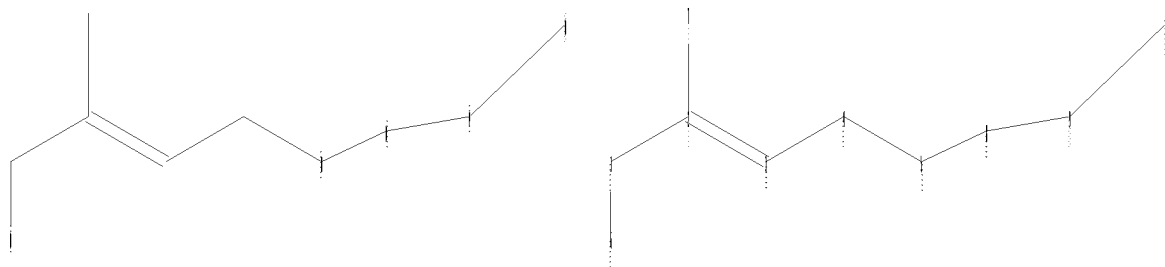
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1942 AND 1992 AND 2006 AND 2016

L1 SCREEN CREATED

=>

Uploading C:\Documents and Settings\jlau1\My Documents\10581144 - HDMAPP\genus.str



chain nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-2 1-6 2-3 2-7 3-4 4-5 5-8 8-9 9-10

exact/norm bonds :

1-6 4-5 5-8 8-9 9-10

exact bonds :
1-2 2-3 2-7 3-4

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS

L2 STRUCTURE UPLOADED

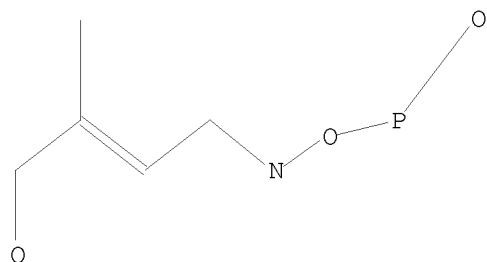
=> que L2 AND L1

L3 QUE L2 AND L1

=> d 12

L2 HAS NO ANSWERS

L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 13 sss sam

SAMPLE SEARCH INITIATED 16:24:19 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0

L4 0 SEA SSS SAM L2 AND L1

=> s 12 sss sam

SAMPLE SEARCH INITIATED 16:24:31 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 0 TO 0

PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L2

=> logoff hodl

'HODL' IS NOT VALID HERE

For an explanation, enter "HELP LOGOFF".

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.92

1.13

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 16:25:04 ON 30 DEC 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 16:26:51 ON 30 DEC 2008

FILE 'REGISTRY' ENTERED AT 16:26:51 ON 30 DEC 2008

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.92

1.13

=> b reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

1.38

1.59

FILE 'REGISTRY' ENTERED AT 16:27:13 ON 30 DEC 2008

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2008 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

DICTIONARY FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and

predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>Testing the current file.... screen

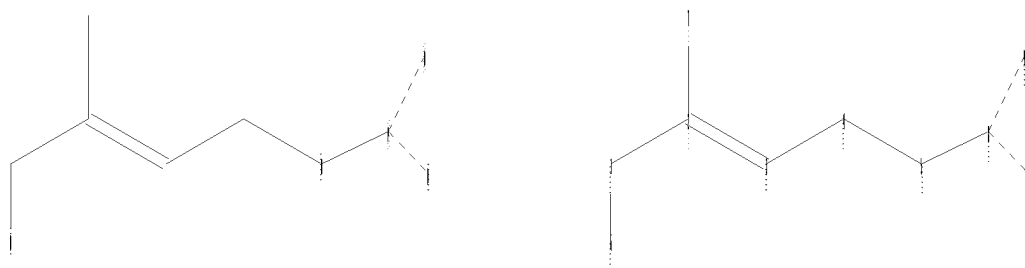
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1942 AND 1992 AND 2006 AND 2016

L6 SCREEN CREATED

=>

Uploading C:\Documents and Settings\jlau1\My Documents\10581144 - HDMAPP\genus2.str



chain nodes :

1 2 3 4 5 6 7 8 9 10

chain bonds :

1-2 1-6 2-3 2-7 3-4 4-5 5-8 8-9 8-10

exact/norm bonds :

1-6 4-5 5-8 8-9 8-10

exact bonds :

1-2 2-3 2-7 3-4

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS

L7 STRUCTURE UPLOADED

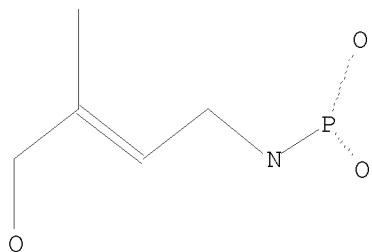
=> que L7 AND L6

L8 QUE L7 AND L6

=> d 17

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> s 18 sss sam

SAMPLE SEARCH INITIATED 16:27:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L9 0 SEA SSS SAM L7 AND L6

=> s 17 sss sam

SAMPLE SEARCH INITIATED 16:27:52 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1 TO 80

PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L7

=> s 17 sss full

FULL SEARCH INITIATED 16:28:04 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 40 TO ITERATE

100.0% PROCESSED 40 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

L11 5 SEA SSS FUL L7

=> d 111 1-5

L11 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2008 ACS on STN

RN 1089667-53-7 REGISTRY

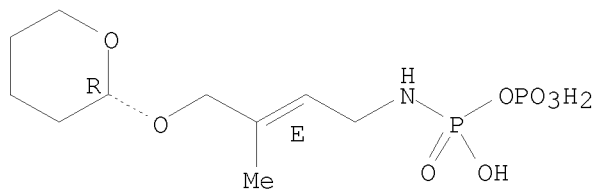
ED Entered STN: 24 Dec 2008

CN INDEX NAME NOT YET ASSIGNED

FS STEREOSEARCH

MF C10 H21 N O8 P2
SR CA
LC STN Files: CA, CAPLUS

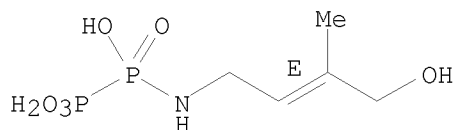
Absolute stereochemistry.
Double bond geometry as shown.



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2008 ACS on STN
RN 1026163-00-7 REGISTRY
ED Entered STN: 08 Jun 2008
CN INDEX NAME NOT YET ASSIGNED
FS STEREOSEARCH
MF C5 H13 N O6 P2
SR Other Sources
Database: ChemSpider (ChemZoo, Inc.)

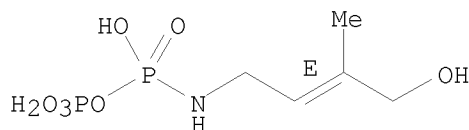
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2008 ACS on STN
RN 853682-73-2 REGISTRY
ED Entered STN: 03 Jul 2005
CN Amidodiphosphoric acid, N-[(2E)-4-hydroxy-3-methyl-2-buten-1-yl]- (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Amidodiphosphoric acid, [(2E)-4-hydroxy-3-methyl-2-butenyl]- (9CI)
FS STEREOSEARCH
MF C5 H13 N O7 P2
CI COM
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER

Double bond geometry as shown.

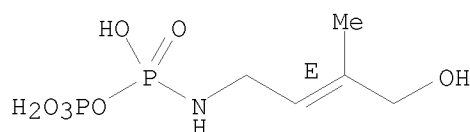


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2008 ACS on STN
RN 853402-91-2 REGISTRY
ED Entered STN: 30 Jun 2005
CN Amidodiphosphoric acid, [(2E)-4-hydroxy-3-methyl-2-butenyl]-, trisodium salt (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C5 H13 N O7 P2 . 3 Na
SR CA
LC STN Files: CA, CAPLUS
CRN (853682-73-2)

Double bond geometry as shown.

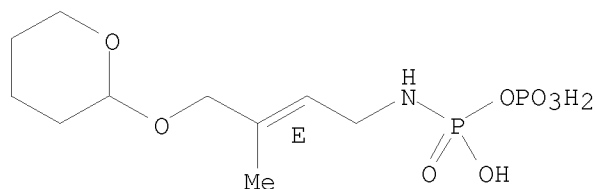


●3 Na

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2008 ACS on STN
RN 853402-90-1 REGISTRY
ED Entered STN: 30 Jun 2005
CN Amidodiphosphoric acid, [(2E)-3-methyl-4-[(tetrahydro-2H-pyran-2-yl)oxy]-2-butenyl]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H21 N O8 P2
SR CA
LC STN Files: CA, CAPLUS, CASREACT

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	188.82	190.41

FILE 'CAPLUS' ENTERED AT 16:28:19 ON 30 DEC 2008
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 COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 30 Dec 2008 VOL 150 ISS 1
 FILE LAST UPDATED: 29 Dec 2008 (20081229/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l11
 L12 4 L11
 => s l12 and py<=2004
 25132454 PY<=2004
 L13 1 L12 AND PY<=2004
 => d l12 1-4 ibib abs hitstr

L12 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2008:1455006 CAPLUS
 TITLE: Improved methods of using phosphoantigens for the treatment of cancer
 INVENTOR(S): Sicard, Helene
 PATENT ASSIGNEE(S): Innate Pharma S.A., Fr.
 SOURCE: PCT Int. Appl., 66pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 2008146167	A2	20081204	WO 2008-IB2197	20080521
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,			

CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: US 2007-941441P P 20070601

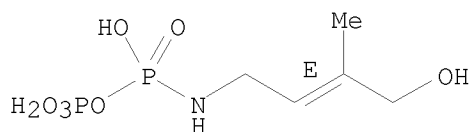
AB The present invention provides novel approaches and strategies for efficient regulation of $\gamma\delta$ T cells in vivo, in a subject, particularly a human subject or a non-human primate. The present invention discloses particular compns. and methods that can be used to induce the proliferation of $\gamma\delta$ T cells in vivo. These compns. and methods employ the conjoint treatment of an individual with a $\gamma\delta$ T cell activating compound and IL-2 and are particularly suited for immunotherapy in a subject, particularly in a subject having cancer or an infectious disease.

IT 853682-73-2
 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (improved methods of using phosphoantigens for the treatment of cancer)

RN 853682-73-2 CAPLUS

CN Amidodiphosphoric acid, N-[(2E)-4-hydroxy-3-methyl-2-buten-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.



L12 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:614166 CAPLUS

DOCUMENT NUMBER: 148:577360

TITLE: Improved methods of using phosphoantigen for the treatment of cancer

INVENTOR(S): Tiollier, Jerome; Sicard, Helene; Bonnafous, Cecile

PATENT ASSIGNEE(S): Innate Pharma, Fr.

SOURCE: PCT Int. Appl., 107pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008059052	A1	20080522	WO 2007-EP62456	20071116
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME,			

MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL,
PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM

WO 2007057440 A2 20070524 WO 2006-EP68610 20061117
WO 2007057440 A3 20080403

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN,
KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT,
TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA

PRIORITY APPLN. INFO.: WO 2006-EP68610 A 20061117
US 2007-938020P P 20070515
US 2005-737588P P 20051117

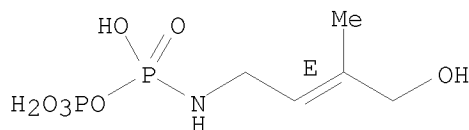
AB The present invention relates to compns. and methods useful for treating a
cancer in mammals, including humans. The methods and compns. typically
comprise use of a chemotherapeutic agent and a $\gamma\delta$ T cell
activator, such that the composition is effective for treating a cancer.
Preferably the composition enhances the effect of the T cell activator and/or
prevents or delays the escape of a tumor from control chemotherapy,
particularly an anti-angiogenic chemotherapeutic agent.

IT 853682-73-2
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(improved methods of using phosphoantigen for treatment of cancer with
 $\gamma\delta$ T cell activator in combination with chemotherapeutic
agent)

RN 853682-73-2 CAPLUS

CN Amidodiphosphoric acid, N-[(2E)-4-hydroxy-3-methyl-2-buten-1-yl]- (CA
INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:71311 CAPLUS

DOCUMENT NUMBER: 148:142876

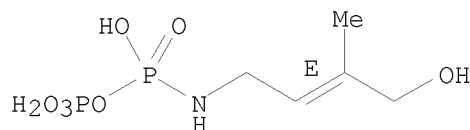
TITLE: Methods and compositions for increasing the efficiency
of therapeutic antibodies using $\gamma\delta$ T cell
activators

INVENTOR(S): Fournie, Jean-Jacques; Gertner, Julie; Sicard, Helene
PATENT ASSIGNEE(S): Institut National de la Sante et de la Recherche
Medicale (INSERM), Fr.; Innate Pharma S.A.
SOURCE: PCT Int. Appl., 69pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008006895	A2	20080117	WO 2007-EP57217	20070712
WO 2008006895	A3	20080327		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA EP 1878440 A1 20080116 EP 2006-291146 20060713 R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU PRIORITY APPLN. INFO.: EP 2006-291146 A 20060713 US 2007-924208P P 20070503				

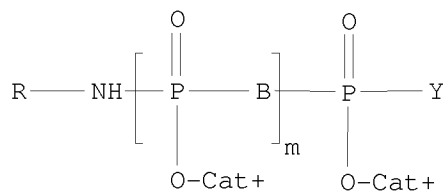
OTHER SOURCE(S): MARPAT 148:142876
AB The authors disclose the use of a therapeutic antibody in combination with
a $\gamma\delta$ + T-cell-activating compound or activated $\gamma\delta$ +
T-cells for potentiation of $\gamma\delta$ + T-cell cytotoxicity against
targeted cells. In one example, phosphoantigen-activated $\gamma\delta$ +
T-cells were shown to enhance the therapeutic efficacy of Rituximab
against breast cancer cells.
IT 853682-73-2
RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
(Uses)
($\gamma\delta$ + T-cell activators increase efficacy of therapeutic
antibodies)
RN 853682-73-2 CAPLUS
CN Amidodiphosphoric acid, N-[(2E)-4-hydroxy-3-methyl-2-buten-1-yl]- (CA
INDEX NAME)

Double bond geometry as shown.



DOCUMENT NUMBER: 143:43970
 TITLE: New class of gamma delta t cells activators and use thereof
 INVENTOR(S): Belmont, Christian; Nury, Patrice
 PATENT ASSIGNEE(S): Innate Pharma, Fr.
 SOURCE: PCT Int. Appl., 56 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005054258	A2	20050616	WO 2004-IB4311	20041202
WO 2005054258	A3	20060309		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
WO 2004050096	A2	20040617	WO 2003-IB6375	20031202
WO 2004050096	A3	20040916		
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AU 2004295194	A1	20050616	AU 2004-295194	20041202
CA 2547008	A1	20050616	CA 2004-2547008	20041202
EP 1689758	A2	20060816	EP 2004-806475	20041202
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
CN 1890252	A	20070103	CN 2004-80035657	20041202
BR 2004017088	A	20070313	BR 2004-17088	20041202
JP 2007516244	T	20070621	JP 2006-542053	20041202
IN 2006DN02826	A	20070803	IN 2006-DN2826	20060518
MX 2006PA06327	A	20061211	MX 2006-PA6327	20060602
US 20070249565	A1	20071025	US 2007-581144	20070705
PRIORITY APPLN. INFO.:			WO 2003-IB6375	A 20031202
			US 2004-579237P	P 20040615
			EP 2002-292963	A 20021202
			US 2004-579237	A 20040615
			WO 2004-IB4311	W 20041202
OTHER SOURCE(S):		CASREACT 143:43970; MARPAT 143:43970		
GI				



I

AB The present invention relates to a new class of compds., I (Cat+ = organic or mineral cation, H; m = 1-3; B = O, NH, any group capable of hydrolyzing; Y = O-Cat+, C1-3 alkyl, group consisting of nucleoside, oligonucleotide, nucleic acid, amino acid, peptide, protein, monosaccharide, etc.; R = linear, branched, cyclic, aromatic, (un)saturated C1-50 hydrocarbon, etc.), having $\gamma\delta$ T cells activating properties, a composition comprising these compds. and methods for regulating an immune response in a subject comprising the step of administering these compds. Thus, (E)-4-hydroxy-3-methylbut-2-enyl pyrophosphoramidate is prepared in 6 steps starting from 2-methyl-2-vinylloxirane. Bioactivity of the compds. prepared is given.

IT 853682-73-2 1089667-53-7

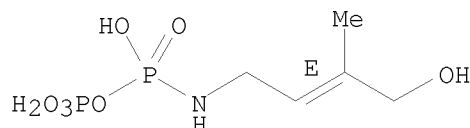
RL: PRPH (Prophetic)

(New class of gamma delta t cells activators and use thereof)

RN 853682-73-2 CAPLUS

CN Amidodiphosphoric acid, N-[(2E)-4-hydroxy-3-methyl-2-buten-1-yl]- (CA INDEX NAME)

Double bond geometry as shown.

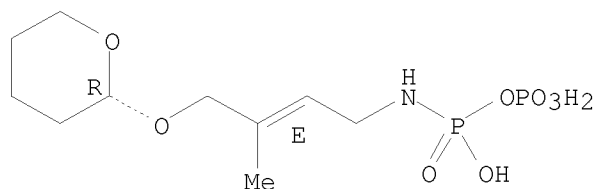


RN 1089667-53-7 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

Absolute stereochemistry.

Double bond geometry as shown.



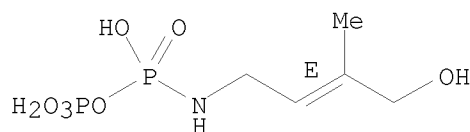
IT 853402-91-2P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of pyrophosphoramidates as new class of gamma delta t cells activators)

RN 853402-91-2 CAPLUS
CN Amidodiphosphoric acid, [(2E)-4-hydroxy-3-methyl-2-butenyl]-, trisodium salt (9CI) (CA INDEX NAME)

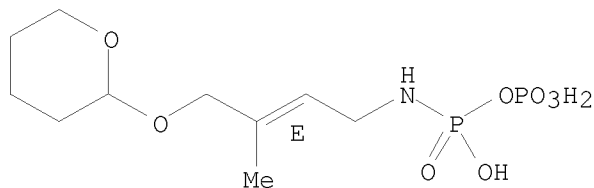
Double bond geometry as shown.



●3 Na

IT 853402-90-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrophosphoramidates as new class of gamma delta t cells activators)
RN 853402-90-1 CAPLUS
CN Amidodiphosphoric acid, [(2E)-3-methyl-4-[(tetrahydro-2H-pyran-2-yl)oxy]-2-butenyl]- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> b marpat

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	24.40	214.81
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.20	-3.20

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FILE CONTENT: 1961-PRESENT VOL 150 ISS 1 (20081226/ED)

MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 20080287535 20 NOV 2008
DE 102007020694 06 NOV 2008
EP 1990852 12 NOV 2008
JP 2008291018 04 DEC 2008
WO 2008140345 20 NOV 2008
GB 2449363 19 NOV 2008
FR 2915993 14 NOV 2008
RU 2338533 20 NOV 2008
CA 2587880 04 NOV 2008

Expanded G-group definition display now available.

The new MARPAT User Guide is now available at:
<http://www.cas.org/support/stngen/stndoc/marpat.html>.

=> d his

(FILE 'HOME' ENTERED AT 16:23:47 ON 30 DEC 2008)

FILE 'REGISTRY' ENTERED AT 16:24:03 ON 30 DEC 2008

L1 SCREEN 1942 AND 1992 AND 2006 AND 2016
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 0 S L3 SSS SAM
L5 0 S L2 SSS SAM

FILE 'REGISTRY' ENTERED AT 16:27:13 ON 30 DEC 2008

L6 SCREEN 1942 AND 1992 AND 2006 AND 2016
L7 STRUCTURE UPLOADED
L8 QUE L7 AND L6
L9 0 S L8 SSS SAM
L10 0 S L7 SSS SAM
L11 5 S L7 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:28:19 ON 30 DEC 2008

L12 4 S L11
L13 1 S L12 AND PY<=2004

FILE 'MARPAT' ENTERED AT 16:29:09 ON 30 DEC 2008

=> s l11 sss sam

SAMPLE SEARCH INITIATED 16:29:20 FILE 'MARPAT'
SAMPLE SCREEN SEARCH COMPLETED - 241 TO ITERATE

100.0% PROCESSED 241 ITERATIONS 19 ANSWERS
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3893 TO 5747
PROJECTED ANSWERS: 118 TO 642

L14 19 SEA SSS SAM L7

=> s l11 sss full

FULL SEARCH INITIATED 16:29:34 FILE 'MARPAT'
FULL SCREEN SEARCH COMPLETED - 4649 TO ITERATE

100.0% PROCESSED 4649 ITERATIONS 319 ANSWERS
SEARCH TIME: 00.00.05

L15 319 SEA SSS FUL L7

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	64.96	279.77
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.20

FILE 'CAPLUS' ENTERED AT 16:29:51 ON 30 DEC 2008
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FILE COVERS 1907 - 30 Dec 2008 VOL 150 ISS 1
FILE LAST UPDATED: 29 Dec 2008 (20081229/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l15

L16 319 L15

=> s l16 and py<=2004

25132454 PY<=2004

L17 243 L16 AND PY<=2004

=> s l17 and phosphoram?

12906 PHOSPHORAM?

L18 16 L17 AND PHOSPHORAM?

=> d l18 1-16 ibib abs hitstr

L18 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:507714 CAPLUS

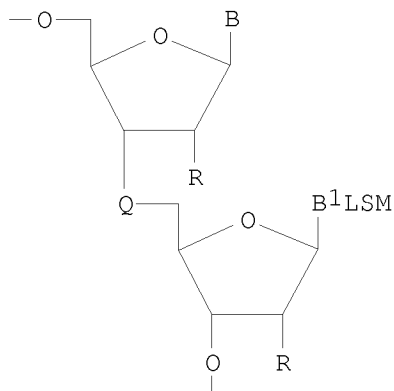
DOCUMENT NUMBER: 135:77056

TITLE: Process for the solid-phase preparation of DNA

INVENTOR(S): Capaldi, Daniel C.; Ravikumar, Vasulinga; Cole,

Douglas L.
 PATENT ASSIGNEE(S): Isis Pharmaceuticals, Inc., USA
 SOURCE: PCT Int. Appl., 62 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001049701	A1	20010712	WO 2000-US35612	20001229 <--
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6649750	B1	20031118	US 2000-477878	20000105 <--
EP 1244682	A1	20021002	EP 2000-988435	20001229 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-477878	A 20000105
			WO 2000-US35612	W 20001229
OTHER SOURCE(S):			MARPAT 135:77056	
GI				



I

AB Processes for the preparation of oligomeric compds. having at least one moiety of formula I wherein Q is internucleoside linkage, B is an optionally blocked heterocyclic base; B1 is a purine or purine analog; each R is independently H or proportionally protected substituted group; L is a bifunctional linking moiety; SM is a support medium, are provided wherein high purity DNA are prepared using support bound phosphoramidite protocols starting with a nucleoside or larger synthon linked to a support media through a nucleosidic heterocyclic base moiety (no data). Intermediates undergoing depurination at the support linkage site are

removed during the wash cycle. Also provided are compns. useful in such processes. The polymeric support used is poly(N-acryloylmorpholine) and oxidizing agent is an oxaziridine.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:435084 CAPLUS

DOCUMENT NUMBER: 135:19876

TITLE: Preparation of carbocyclic nucleoside analogs of (1S,cis)-4-(2-amino-9H-purin-9-yl)-2-cyclopentene-1-methanol as antiviral agents

INVENTOR(S): Daluge, Susan Mary

PATENT ASSIGNEE(S): Glaxo Group Limited, UK

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

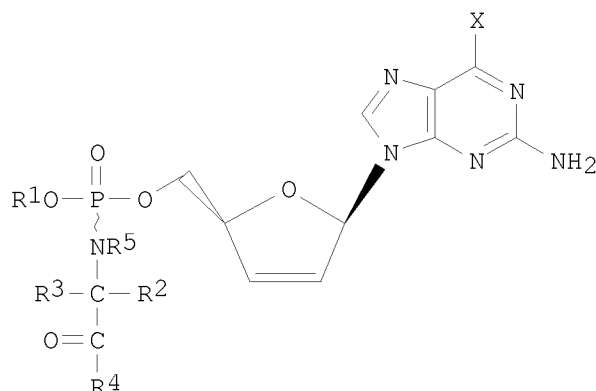
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001042256	A1	20010614	WO 2000-US33204	20001207 <--
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EP 1235833	A1	20020904	EP 2000-984009	20001207 <--
EP 1235833	B1	20040225		
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JP 2003516409	T	20030513	JP 2001-543554	20001207 <--
AT 260288	T	20040315	AT 2000-984009	20001207 <--
ES 2213061	T3	20040816	ES 2000-984009	20001207 <--
US 20030040506	A1	20030227	US 2002-149198	20020610 <--
PRIORITY APPLN. INFO.:			US 1999-170225P	P 19991210
			WO 2000-US33204	W 20001207

OTHER SOURCE(S): MARPAT 135:19876

GI



I

AB The present invention relates to (1R,cis)-4-(4-amino-7H-pyrrolo[2,3-d]pyrimidine-7-yl)-2-cyclopentene-1-methanol derivs. I wherein; R1 is hydrogen; aryl; or heteroaryl, optionally substituted with alkoxy, nitro, halogen, amino, hydroxy, carboxylate and esters thereof, carboxyalkyl, amide; R2 and R3 are independently selected from hydrogen; or substituted alkyl, cycloalkyl, alkenyl, cycloalkenyl, aryl, or aralkyl; R4 is OR6, -NR6R7 or -SR6, where R6 and R7, which may be the same or different, are independently selected from hydrogen, or alkyl, cycloalkyl, alkenyl, cycloalkenyl, heterocycle, aralkyl, aryl or alkylaryl wherein each may be optionally substituted with one or more substituents selected from the group consisting of halo, hydroxy, alkoxy, amino, aminoalkyl, aminodialkyl, -SH, thioalkyl, carboxylate and esters thereof, carboxyalkyl, amide; R5 is hydrogen, alkyl, or aryl, or R2 and R5 may together form a 5- or 6-membered ring; or R3 and R5 may together form a 5- or 6-membered ring; X is alkoxy, optionally substituted with cycloalkyl, cycloalkyloxy, aryloxy, aralkyl or aralkyloxy, cycloalkylthio; alkylthio; arylthio, or aralkylthio, heterocyclic with optional double bonds in the ring, were prepared as antiviral agents. Thus, (1S,cis)-4-[2-amino-6-(1-azetidiny)-9H-purin-9-yl]-2-cyclopentene-1-methanol O-[phenyl(methoxy-L-alaninyl)]phosphoramidate was prepared and tested as antiviral agent in MT4 cells (IC50 = 0.01-2.5 μ M). Anti-hepatitis B activity of the compds. was in the range IC50 of 0.020-4.0 μ M.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:435083 CAPLUS

DOCUMENT NUMBER: 135:19875

TITLE: Preparation of carbocyclic nucleoside (1R,cis)-4-(4-amino-7H-pyrrolo[2,3-d]pyrimidine-7-yl)-2-cyclopentene-1-methanol derivatives as antiviral

INVENTOR(S): Daluge, Susan Mary; Gudmundsson, Kristjan

PATENT ASSIGNEE(S): Glaxo Group Limited, UK

SOURCE: PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

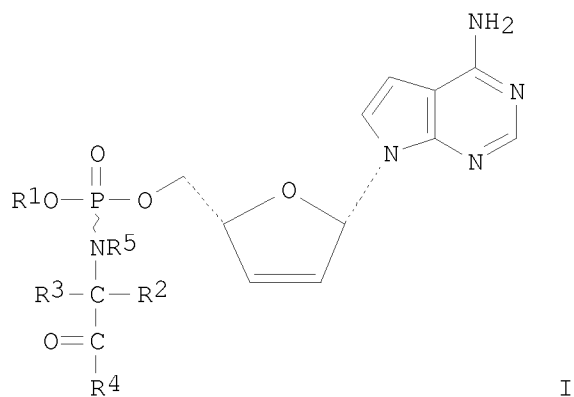
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2001042255	A1	20010614	WO 2000-US33147	20001207 <--
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AU 2001025760	A	20010618	AU 2001-25760	20001207 <--
EP 1235834	A1	20020904	EP 2000-989224	20001207 <--
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JP 2003516408	T	20030513	JP 2001-543553	20001207 <--
US 20030045508	A1	20030306	US 2002-149457	20020610 <--
PRIORITY APPLN. INFO.:			US 1999-170161P	P 19991210
			WO 2000-US33147	W 20001207
OTHER SOURCE(S): MARPAT 135:19875				
GI				



AB The present invention relates to (1R,cis)-4-(4-amino-7H-pyrrolo[2,3-d]pyrimidine-7-yl)-2-cyclopentene-1-methanol derivs. I wherein; R1 is hydrogen; aryl; or heteroaryl, optionally substituted with alkoxy, nitro, halogen, amino, hydroxy, carboxylate and esters thereof, carboxyalkyl, amide; R2 and R3 are independently selected from hydrogen; or substituted alkyl, cycloalkyl, alkenyl, cycloalkenyl, aryl, or aralkyl; R4 is OR6, -NR6R7 or -SR6, where R6 and R7, which may be the same or different, are independently selected from hydrogen, or alkyl, cycloalkyl, alkenyl, cycloalkenyl, heterocycle, aralkyl, aryl or alkylaryl wherein each may be optionally substituted with one or more substituents selected from the group consisting of halo, hydroxy, alkoxy, amino, aminoalkyl, aminodialkyl, -SH, thioalkyl, carboxylate and esters thereof, carboxyalkyl, amide; R5 is hydrogen, alkyl, or aryl, or R2 and R5 may together form a 5- or 6-membered ring; or R3 and R5 may together form a 5- or 6-membered ring; were prepared as antiviral agents. Thus, (1R,cis)-4-[4-amino-7H-pyrrolo[2,3-d]pyrimidin-7-yl]-2-cyclopentene-1-methanol-O-[phenyl(methoxy L-alaninyl)]phosphoramidate was prepared and tested as antiviral agent in MT4 cells (IC50 = 0.01-1.0 μ M). Anti-hepatitis B activity of the compds. demonstrated improved activity by as much as 100-fold over that of the corresponding nucleoside analogs.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:573804 CAPLUS

DOCUMENT NUMBER: 133:164270

TITLE: Preparation of carbocyclic nucleoside
phosphoramidates as antiviral agents

INVENTOR(S): Daluge, Susan Mary; McGuigan, Christopher

PATENT ASSIGNEE(S): Glaxo Group Limited, UK; University College Cardiff
Consultants Limited

SOURCE: PCT Int. Appl., 68 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

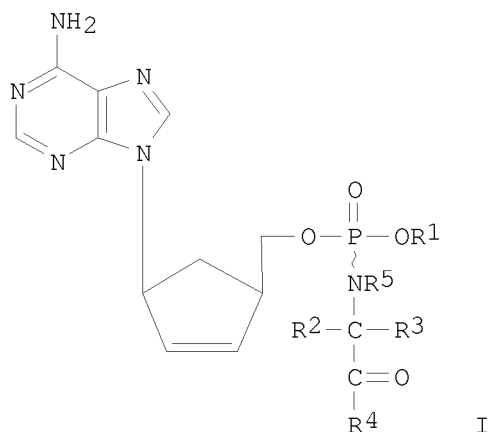
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000047591	A1	20000817	WO 2000-EP1045	20000210 <--
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CN 1346360	A	20000210	CN 2000-806002	20000210 <--
CA 2362662	A1	20000817	CA 2000-2362662	20000210 <--
EP 1150988	A1	20011107	EP 2000-905043	20000210 <--
EP 1150988	B1	20030528		
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HU 2001005476	A3	20020828		
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AT 241633	T	20030615	AT 2000-905043	20000210 <--
PT 1150988	T	20031031	PT 2000-905043	20000210 <--
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CN 1803810	A	20060719	CN 2004-10001601	20000210
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US 7115590	B1	20061003	US 2001-913226	20011026
HK 1039337	A1	20031121	HK 2002-100897	20020205 <--
PRIORITY APPLN. INFO.:			GB 1999-3090	A 19990212
			US 1999-170205P	P 19991210
			CN 2000-806002	A3 20000210
			WO 2000-EP1045	W 20000210

OTHER SOURCE(S): MARPAT 133:164270

GI



AB The present invention relates to analogs of (1R,cis)-4-(6-amino-9H-purin-9-yl)-2-cyclopentene-1-methanol derivs. I (R1 = H, aryl, substituted heteroaryl; R2, R3 = independently H, alkyl, cycloalkyl, alkenyl, cycloalkenyl, aryl, aralkyl; R4 = alkoxy, substituted amine; R5 = H, alkyl, aryl; R2R5 = 5 to 6-membered ring), processes for their preparation, and their use in treating viral infections. Thus, (1R,cis)-4-(6-amino-9H-purinyl-9-yl)-2-cyclopentene-1-methanol-O-(phenylmethoxy-L-alaninyl)phosphoramidate was prepared and tested for its anti-HIV activity in MT4 cells and for its antihepatitis B virus activity (IC50 = 0.018 mM).

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:218411 CAPLUS

DOCUMENT NUMBER: 132:246346

TITLE: NAALADase inhibitors, preparation thereof, pharmaceutical compositions, and use in the treatment of prostate disease

INVENTOR(S): Jackson, Paul F.; Slusher, Barbara S.; Tays, Kevin L.; Maclin, Keith M.

PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA

SOURCE: U.S., 37 pp., Cont.-in-part of U.S. 5,672,592.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6046180	A	20000404	US 1997-863624	19970527 <--
US 5672592	A	19970930	US 1996-665776	19960617 <--
US 5795877	A	19980818	US 1996-775586	19961231 <--
US 5863536	A	19990126	US 1996-778733	19961231 <--
CA 2258587	A1	19971224	CA 1997-2258587	19970616 <--
WO 9748400	A1	19971224	WO 1997-US11540	19970616 <--

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EP 936914	A1	19990825	EP 1997-931529	19970616 <--
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US 6017903	A	20000125	US 1997-884479	19970627 <--
US 5977090	A	19991102	US 1997-899319	19970723 <--
US 6025345	A	20000215	US 1997-900194	19970725 <--
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AU 9741518	A	19980417	AU 1997-41518	19970815 <--
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WO 9853812	A1	19981203	WO 1997-US14347	19970815 <--
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AU 9739821	A	19981230	AU 1997-39821	19970815 <--
AU 739443	B2	20011011		
BR 9711555	A	19990824	BR 1997-11555	19970815 <--
CN 1230889	A	19991006	CN 1997-198122	19970815 <--
EP 949922	A1	19991020	EP 1997-939427	19970815 <--
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EP 994707	A1	20000426	EP 1997-937265	19970815 <--
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EP 1005348	A1	20000607	EP 1997-938314	19970815 <--
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	IE, SI, LT, LV, FI, RO			
NZ 334780	A	20001222	NZ 1997-334780	19970815 <--
HU 2000001062	A2	20010528	HU 2000-1062	19970815 <--

HU 2000001062	A3	20010928		
US 6071965	A	20000606	US 1997-2147	19971231 <--
US 6384022	B1	20020507	US 1997-1667	19971231 <--
KR 2000036227	A	20000626	KR 1999-702297	19990318 <--
NO 9901387	A	19990527	NO 1999-1387	19990322 <--
US 6413948	B1	20020702	US 1999-388442	19990902 <--

PRIORITY APPLN. INFO.:

US 1996-665776	A2	19960617
US 1996-775586	A2	19961231
US 1996-778733	A2	19961231
US 1996-665775	A2	19960617
US 1996-718703	A2	19960927
US 1997-825997	A2	19970404
US 1997-835572	A2	19970409
US 1997-842360	A2	19970424
US 1997-858985	A2	19970527
US 1997-863624	A	19970527
US 1997-864545	A2	19970528
WO 1997-US11540	W	19970616
US 1997-884479	A2	19970627
US 1997-899319	A2	19970723
US 1997-900194	A	19970725
WO 1997-US14344	W	19970815
WO 1997-US14347	W	19970815
WO 1997-US14417	W	19970815

OTHER SOURCE(S): MARPAT 132:246346

AB The invention discloses dipeptidase inhibitors, and more particularly, phosphonate derivs., hydroxyphosphinyl derivs., and phosphoramidate derivs. that inhibit N-Acetylated α -Linked Acidic Dipeptidase (NAALADase), pharmaceutical compns. comprising the derivs., and methods of using the derivs. to inhibit NAALADase activity and to treat prostate diseases, especially for the inhibition of the growth of prostate cancer cells.

REFERENCE COUNT: 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:113092 CAPLUS

DOCUMENT NUMBER: 132:161240

TITLE: Certain dioic acid derivatives useful as N-acetylated α -linked acidic dipeptidase (NAALADase) inhibitors

INVENTOR(S): Jackson, Paul F.; Slusher, Barbara S.; Tays, Kevin L.; Maclin, Keith M.

PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA

SOURCE: U.S., 35 pp., Cont.-in-part of U.S. 5,672,592.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 6025344	A	20000215	US 1997-858985	19970527 <--
US 5672592	A	19970930	US 1996-665776	19960617 <--
US 5795877	A	19980818	US 1996-775586	19961231 <--
US 5863536	A	19990126	US 1996-778733	19961231 <--
CA 2258589	A1	19971224	CA 1997-2258589	19970616 <--
WO 9748399	A1	19971224	WO 1997-US11538	19970616 <--

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 AU 9741518 A 19980417 AU 1997-41518 19970815 <--
 CA 2291258 A1 19981203 CA 1997-2291258 19970815 <--
 WO 9853812 A1 19981203 WO 1997-US14347 19970815 <--

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AU 9739821 A 19981230 AU 1997-39821 19970815 <--
 AU 739443 B2 20011011
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 CN 1230889 A 19991006 CN 1997-198122 19970815 <--
 EP 949922 A1 19991020 EP 1997-939427 19970815 <--
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EP 994707 A1 20000426 EP 1997-937265 19970815 <--
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, FI

EP 1005348 A1 20000607 EP 1997-938314 19970815 <--

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US 6071965	A	20000606	US 1997-2147	19971231 <--
US 6384022	B1	20020507	US 1997-1667	19971231 <--
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KR 2000036227	A	20000626	KR 1999-702297	19990318 <--
NO 9901387	A	19990527	NO 1999-1387	19990322 <--
US 6413948	B1	20020702	US 1999-388442	19990902 <--
US 6479471	B1	20021112	US 1999-466059	19991217 <--
PRIORITY APPLN. INFO.:			US 1996-665776	A2 19960617
			US 1996-775586	A2 19961231
			US 1996-778733	A2 19961231
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			WO 1997-US11538	W 19970616
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			US 1997-900194	A 19970725
			WO 1997-US14344	W 19970815
			WO 1997-US14347	W 19970815
			WO 1997-US14417	W 19970815

OTHER SOURCE(S): MARPAT 132:161240

AB The disclosure relates to dipeptidase inhibitors, and more particularly, to novel phosphonate derivs., hydroxyphosphinyl derivs., and phosphoramidate derivs. that inhibit N-acetylated α -linked acidic dipeptidase (NAALADase) enzyme activity, pharmaceutical compns. comprising such derivs., and methods of using such derivs. to inhibit NAALADase activity, and to treat prostate diseases, especially using the compds. of the invention for the inhibition of the growth of prostate cancer cells.

REFERENCE COUNT: 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:10621 CAPLUS

DOCUMENT NUMBER: 132:59155

TITLE: Methods of cancer treatment using NAALADase inhibitors

INVENTOR(S): Slusher, Barbara S.; Jackson, Paul F.; Tays, Kevin L.; Maclin, Keith M.

PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA

SOURCE: U.S., 48 pp., Cont.-in-part of U.S. 5,804,602.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6011021	A	20000104	US 1997-864545	19970528 <--
US 5804602	A	19980908	US 1996-665775	19960617 <--
CA 2257433	A1	19971204	CA 1997-2257433	19970613 <--
WO 9748409	A1	19971224	WO 1997-US10149	19970613 <--
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CN 1221346	A	19990630	CN 1997-195439	19970613 <--
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HU 9903421	A3	20010828		
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WO 9853812	A1	19981203	WO 1997-US14347	19970815 <--
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			US 1996-718703	A2 19960927
			US 1996-775586	A2 19961231
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			US 1997-825997	A2 19970404
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			US 1997-863624	A2 19970527
			US 1997-864545	A 19970528

WO 1997-US10149	W 19970613
US 1997-884479	A2 19970627
US 1997-899319	A2 19970723
US 1997-900194	A 19970725
WO 1997-US14347	W 19970815
US 1999-405842	A1 19990927

OTHER SOURCE(S): MARPAT 132:59155

AB The present disclosure relates to dipeptidase inhibitors, and more particularly, to novel methods of using phosphonate derivs., hydroxyphosphinyl derivs., and phosphoramidate derivs. to inhibit N-Acetylated α -Linked Acidic Dipeptidase (NAALADase) enzyme activity, and to treat prostate diseases, especially using the compds. of the present invention for the inhibition of the growth of prostate cancer cells.

REFERENCE COUNT: 91 THERE ARE 91 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:799990 CAPLUS

DOCUMENT NUMBER: 130:33047

TITLE: Phosphonate, hydroxyphosphinyl, and phosphoramidate inhibitors of N-acetylated α -linked acidic dipeptidase (NAALADase) enzyme activity, preparation thereof, and therapeutic use

INVENTOR(S): Jackson, Paul F.; Slusher, Barbara S.; Tays, Kevin L.; Maclin, Keith M.

PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA

SOURCE: PCT Int. Appl., 129 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
WO 9853812	A1	19981203	WO 1997-US14347	19970815 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 6025344	A	20000215	US 1997-858985	19970527 <--
US 6046180	A	20000404	US 1997-863624	19970527 <--
US 6011021	A	20000104	US 1997-864545	19970528 <--
US 6025345	A	20000215	US 1997-900194	19970725 <--
CA 2291258	A1	19981203	CA 1997-2291258	19970815 <--
AU 9739821	A	19981230	AU 1997-39821	19970815 <--
AU 739443	B2	20011011		
EP 994707	A1	20000426	EP 1997-937265	19970815 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				

PRIORITY APPLN. INFO.:

US 1997-858985	A 19970527
US 1997-863624	A 19970527
US 1997-864545	A 19970528
US 1997-900194	A 19970725
US 1996-665775	A2 19960617

US 1996-665776	A2 19960617
US 1996-775586	A2 19961231
US 1996-778733	A2 19961231
WO 1997-US14347	W 19970815

OTHER SOURCE(S): MARPAT 130:33047

AB The invention discloses dipeptidase inhibitors, and more particularly, methods of using phosphonate derivs., hydroxyphosphinyl derivs., and phosphoramidate derivs. to inhibit N-Acetylated α -Linked Acidic Dipeptidase (NAALADase) enzyme activity, and to treat e.g. prostate diseases, especially inhibition of the growth of prostate cancer cells.

Preparation

of compds. of the invention is described.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:28668 CAPLUS

DOCUMENT NUMBER: 128:84389

ORIGINAL REFERENCE NO.: 128:16337a,16340a

TITLE: Methods of cancer treatment using NAALADase inhibitors

INVENTOR(S): Slusher, Barbara S.; Jackson, Paul F.; Tays, Kevin L.; MacLin, Keith M.

PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA

SOURCE: PCT Int. Appl., 235 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9748409	A1	19971224	WO 1997-US10149	19970613 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5804602	A	19980908	US 1996-665775	19960617 <--
US 6011021	A	20000104	US 1997-864545	19970528 <--
AU 9733887	A	19980107	AU 1997-33887	19970613 <--
AU 725455	B2	20001012		
EP 954295	A1	19991110	EP 1997-929944	19970613 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
BR 9709819	A	20000111	BR 1997-9819	19970613 <--
NZ 333235	A	20000623	NZ 1997-333235	19970613 <--
HU 9903421	A2	20010528	HU 1999-3421	19970613 <--
HU 9903421	A3	20010828		
RU 2218179	C2	20031210	RU 1999-100712	19970613 <--
MX 9810091	A	20000131	MX 1998-10091	19981130 <--
NO 9805652	A	19990209	NO 1998-5652	19981203 <--
PRIORITY APPLN. INFO.:			US 1996-665775	A 19960617
			US 1997-864545	A 19970528
			WO 1997-US10149	W 19970613

OTHER SOURCE(S): MARPAT 128:84389

AB Glutamate-derived hydroxyphosphinyl derivs. are claimed as NAALADase

inhibitors for the treatment of cancer. Phosphonate, hydroxyphosphinyl, and phosphoramidate derivs. R1P(O)(OH)XCHR2CO2H [R1 = H, alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl; X = CH2, O, NR1; R2 = alkyl, alkenyl, cycloalkyl, cycloalkenyl, or aryl which may be optionally substituted with carboxylic acid] were prepared In vitro assays of NAALADase inhibitory activities are tabulated for several phosphinyl derivs., e.g., 2-(phosphonomethyl)pentanedioic acid.

L18 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1998:28659 CAPLUS

DOCUMENT NUMBER: 128:70764

ORIGINAL REFERENCE NO.: 128:13691a,13694a

TITLE: Hydroxy-phosphinyl derivatives useful as NAALADase inhibitors

INVENTOR(S): Jackson, Paul F.; Slusher, Barbara S.; Tays, Kevin L.; MacLin, Keith M.

PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA

SOURCE: PCT Int. Appl., 166 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 17

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9748400	A1	19971224	WO 1997-US11540	19970616 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU				
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5672592	A	19970930	US 1996-665776	19960617 <--
US 5795877	A	19980818	US 1996-775586	19961231 <--
US 5863536	A	19990126	US 1996-778733	19961231 <--
US 6046180	A	20000404	US 1997-863624	19970527 <--
AU 9735135	A	19980107	AU 1997-35135	19970616 <--
EP 936914	A1	19990825	EP 1997-931529	19970616 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 2002514160	T	20020514	JP 1998-503609	19970616 <--
ZA 9707086	A	19980630	ZA 1997-7086	19970808 <--
ZA 9707085	A	19990208	ZA 1997-7085	19970808 <--
PRIORITY APPLN. INFO.:			US 1996-665776	A 19960617
			US 1996-775586	A 19961231
			US 1996-778733	A 19961231
			US 1997-863624	A 19970527
			WO 1997-US11540	W 19970616

OTHER SOURCE(S): MARPAT 128:70764

AB Phosphonate, hydroxyphosphinyl, and phosphoramidate derivs. R1P(O)(OH)XCHR2CO2H [R1 = H, alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl; X = CH2, O, NR1; R2 = (un)substituted alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl] that inhibit N-acetylated α -linked acidic dipeptidase (NAALADase) enzyme activity were prepared In vitro assays of NAALADase inhibitory activities are tabulated for several phosphinyl derivs., e.g., 2-(phosphonomethyl)pentanedioic acid.

ACCESSION NUMBER: 1998:28658 CAPLUS
 DOCUMENT NUMBER: 128:70763
 ORIGINAL REFERENCE NO.: 128:13691a,13694a
 TITLE: Certain phosphinyl derivatives useful as NAALADase inhibitors
 INVENTOR(S): Jackson, Paul F.; Slusher, Barbara S.; Tays, Kevin L.; MacLin, Keith M.
 PATENT ASSIGNEE(S): Guilford Pharmaceuticals Inc., USA
 SOURCE: PCT Int. Appl., 153 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 17
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9748399	A1	19971224	WO 1997-US11538	19970616 <--
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, YU RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5672592	A	19970930	US 1996-665776	19960617 <--
US 5795877	A	19980818	US 1996-775586	19961231 <--
US 5863536	A	19990126	US 1996-778733	19961231 <--
US 6025344	A	20000215	US 1997-858985	19970527 <--
AU 9735906	A	19980107	AU 1997-35906	19970616 <--
AU 726854	B2	20001123		
BR 9709795	A	19990810	BR 1997-9795	19970616 <--
EP 957924	A1	19991124	EP 1997-932448	19970616 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
HU 9902636	A2	20010428	HU 1999-2636	19970616 <--
JP 2002514157	T	20020514	JP 1998-501902	19970616 <--
ZA 9707086	A	19980630	ZA 1997-7086	19970808 <--
ZA 9707085	A	19990208	ZA 1997-7085	19970808 <--
MX 9810089	A	20000131	MX 1998-10089	19981130 <--
NO 9805874	A	19990215	NO 1998-5874	19981215 <--

PRIORITY APPLN. INFO.:
 US 1996-665776 A 19960617
 US 1996-775586 A 19961231
 US 1996-778733 A 19961231
 US 1997-858985 A 19970527
 WO 1997-US11538 W 19970616

OTHER SOURCE(S): MARPAT 128:70763

AB Phosphonate, hydroxyphosphinyl, and phosphoramidate derivs.
 R1P(O)(OH)XCHR2CO2H (R1 = H, alkyl, alkenyl, cycloalkyl, cycloalkenyl, aryl; X = CH2, O, NR1; R2 = alkyl, alkenyl, cycloalkyl, cycloalkenyl, or aryl which is substituted by carboxylic acid) that inhibit N-acetylated α -linked acidic dipeptidase (NAALADase) enzyme activity were prepared
 In vitro assays of NAALADase inhibitory activities are tabulated for several phosphinyl derivs., e.g., 2-(phosphonomethyl)pentanedioic acid.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ACCESSION NUMBER: 1997:650356 CAPLUS
 DOCUMENT NUMBER: 127:307622
 ORIGINAL REFERENCE NO.: 127:60177a,60180a
 TITLE: Preparation and MALDI-TOF mass spectra of of
 dinucleotide and oligodeoxyribonucleotide analogs
 INVENTOR(S): Baxter, Anthony David; Baylis, Eric Keith;
 Collingwood, Stephen Paul; Fairhurst, Robin Alec;
 Taylor, Roger John
 PATENT ASSIGNEE(S): Novartis A.-G., Switz.
 SOURCE: PCT Int. Appl., 142 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9735869	A1	19971002	WO 1997-GB651	19970311 <--
W: AL, AU, BA, BB, BG, BR, CA, CN, CU, CZ, EE, GE, GH, HU, IL, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9721031	A	19971017	AU 1997-21031	19970311 <--
ZA 9702435	A	19971118	ZA 1997-2435	19970320 <--
US 6087490	A	20000711	US 1998-155198	19981008 <--
PRIORITY APPLN. INFO.:			GB 1996-6158	A 19960323
			WO 1997-GB651	W 19970311
OTHER SOURCE(S):		MARPAT 127:307622		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Preparation and MALDI-TOF (matrix assisted laser desorption time-of-light) mass
 spectra of dinucleotide and oligodeoxyribonucleotide analogs I (B1 and B2
 are independently nucleobase; R1 = H, hydroxy protecting group; R2 and R3
 are independently H, halogen, OH, alkoxy; R4 = H, hydroxy protecting
 group, phosphoramidyl; R5 = H, halogen, alkyl; R6 = H,
phosphoramidyl, hydroxy protecting group; Z = substituted chain
 containing carbon, nitrogen, and phosphorus) are reported. Thus,
 TTTRCTCTCTCTCT was prepared and its MALDI-TOF mass spectra is reported.

L18 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1996:738120 CAPLUS
 DOCUMENT NUMBER: 126:19177
 ORIGINAL REFERENCE NO.: 126:3985a,3988a
 TITLE: Preparation of amino acid-containing nucleotide
 analogs as virucides
 INVENTOR(S): Mcguigan, Christopher; Balzarini, Jan
 PATENT ASSIGNEE(S): Medical Research Council, UK; University College
 Cardiff Consultants Ltd.; Rega Foundation
 SOURCE: PCT Int. Appl., 70 pp.
 CODEN: PIXXD2

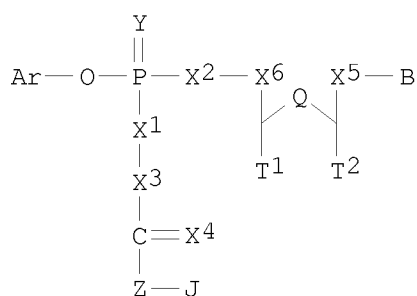
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9629336	A1	19960926	WO 1996-GB580	19960313 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN				
CA 2215190	A1	19960926	CA 1996-2215190	19960313 <--
AU 9650094	A	19961008	AU 1996-50094	19960313 <--
AU 707196	B2	19990708		
EP 820461	A1	19980128	EP 1996-906832	19960313 <--
EP 820461	B1	20050518		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11506419	T	19990608	JP 1996-528160	19960313 <--
AT 295849	T	20050615	AT 1996-906832	19960313
PT 820461	T	20050930	PT 1996-906832	19960313
ES 2242965	T3	20051116	ES 1996-906832	19960313
US 6455513	B1	20020924	US 1999-382084	19990824 <--
US 20030120071	A1	20030626	US 2002-216940	20020812 <--
US 7018989	B2	20060328		

PRIORITY APPLN. INFO.:

GB 1995-5025	A	19950313
WO 1996-GB580	W	19960313
US 1998-913639	B1	19980202
US 1999-382084	A1	19990824

OTHER SOURCE(S): MARPAT 126:19177
 GI



I

AB Title amino acid-containing nucleotides I (Ar = aryl; Y = O, S; X1,X2 = O, S, aminoalkyl, alkyl; X3 = alkyl; X4 = CH2, O; X5,X6 = bond, CH2; Z = O, aminoalkyl, S, alkyl, aryl; J = H, alkyl, aryl, heterocyclic, polycyclic) were prepared as virucides. Thus, 2',3'-dideoxy-2',3'-didehydrothymidine 5'-(phenyl-N-methoxyalaninyl) phosphoramidate was prepared and tested for its antiviral activity.

L18 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1995:996995 CAPLUS
 DOCUMENT NUMBER: 124:176531

ORIGINAL REFERENCE NO.: 124:32755a,32758a
 TITLE: Preparation of phosphoramides from amines, amino acids, and peptides in aqueous system
 INVENTOR(S): Zhao, Yufeng; Yin, Yingwu
 PATENT ASSIGNEE(S): Qinghua University, Peop. Rep. China
 SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
CN 1093368	A	19941012	CN 1993-112816	19931224 <--
PRIORITY APPLN. INFO.:			CN 1993-112816	19931224
OTHER SOURCE(S):	MARPAT 124:176531			

AB Title compds. (R1O)(R2O)P(O)NR3R4 (R1, R2 = alkyl; R3, R4 = alkyl, amino acid, or peptide residue) are prepared by reaction of (R1O)(R2O)P(O)H with R3R4NH in H2O-alc.-base-CCl4. The mixed solvents facilitate the dissoln. of reactants. The base neutralizes the HCl formed for easy isolation of the products.

L18 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1991:449977 CAPLUS
 DOCUMENT NUMBER: 115:49977
 ORIGINAL REFERENCE NO.: 115:8693a,8696a
 TITLE: Preparation of (fluoroalkylthio)phosphates, - phosphoramides, etc., as pesticides
 INVENTOR(S): Sommer, Herbert; Boehm, Stefan; Bielefeldt, Dietmar; Hartwig, Juergen; Stendel, Wilhelm
 PATENT ASSIGNEE(S): Bayer A.-G., Germany
 SOURCE: Ger. Offen., 18 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
DE 3930409	A1	19910314	DE 1989-3930409	19890912 <--
EP 417558	A2	19910320	EP 1990-116628	19900830 <--
EP 417558	A3	19920603		
R: BE, CH, DE, FR, GB, IT, LI, NL				
JP 03106892	A	19910507	JP 1990-235960	19900907 <--
PRIORITY APPLN. INFO.:			DE 1989-3930409	A 19890912
OTHER SOURCE(S):	CASREACT 115:49977; MARPAT 115:49977			

AB R3R4R5CCFR2SP(Y)RR1 [R = (substituted) alkyl, alkenyl, OR6; R6 = (substituted) alkyl, alkenyl, alkynyl; R1 = SR7, NR8R9; R7 = (substituted) alkyl, cycloalkyl, alkenyl, alkynyl; R8, R9 = H, R7; R2 - R5 = H, halo, alkyl; Y = O, S], were prepared Thus, (EtO)2P(O)SCHMe in CH2Cl2 at -78° was treated with MeF2CCl in CH2Cl2 and the mixture was stirred 16 h at room temperature to give 39% MeCF2SP(O)(OEt)SCHMeEt. The latter at 20 ppm gave 100% control of Phorbia antiqua in soil.

L18 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:179639 CAPLUS
 DOCUMENT NUMBER: 98:179639

ORIGINAL REFERENCE NO.: 98:27315a,27318a
 TITLE: Phosphoro(di- or tri-)thioate derivatives, pesticidal compositions containing them and their use for combating pests
 INVENTOR(S): Smolanoff, Joel Robert; Fitzpatrick, Joseph Michael; Ollinger, Jeanet
 PATENT ASSIGNEE(S): Rohm and Haas Co., USA
 SOURCE: Eur. Pat. Appl., 87 pp.
 CODEN: EPXXDW
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 68823	A1	19830105	EP 1982-303297	19820624 <--
EP 68823	B1	19880504		
R: AT, BE, CH, DE, FR, GB, IT, LI, SE				
CA 1211119	A1	19860909	CA 1982-405261	19820616 <--
JP 58038293	A	19830305	JP 1982-108248	19820623 <--
JP 03054114	B	19910819		
BR 8203659	A	19830621	BR 1982-3659	19820623 <--
AU 8285312	A	19830106	AU 1982-85312	19820624 <--
ZA 8204486	A	19830427	ZA 1982-4486	19820624 <--
EP 139156	A1	19850502	EP 1984-109926	19820624 <--
EP 139156	B1	19890531		
R: AT, BE, CH, DE, FR, GB, IT, LI, SE				
IL 66135	A	19860930	IL 1982-66135	19820624 <--
AT 33986	T	19880515	AT 1982-303297	19820624 <--
PRIORITY APPLN. INFO.:			US 1981-276780	A 19810624
			EP 1982-303297	P 19820624

OTHER SOURCE(S): MARPAT 98:179639
 AB R-X-P(:X1)(SR1)NR2C(:X2)R3 [R = alkenyl, alkynyl, (un)substituted alkyl, Ph; R1 = alkenyl, alkynyl, cycloalkyl, heterocycle, (un)substituted alkyl, Ph; R2 = H, alkynyl, (un)substituted alkyl, alkenyl, Ph, naphthyl; R3 = H, Me, F3C, alkoxycarbonyl, alkoxythiocarbonyl; X, X1, X2 = 0, S] were prepared Thus, EtOP(S)(NHet)SCHMeEt was treated with HCO2Ac to yield 88% EtOP(S)(SCHMeEt)NEtCHO (I). At 600 ppm in a foliar spray I gave 100% control of Tetranychus urticae and 98% control of Myzus persicae. It gave nearly total control of Meloidogyne incognita at 150 ppm in the soil.

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(FILE 'HOME' ENTERED AT 16:23:47 ON 30 DEC 2008)

FILE 'REGISTRY' ENTERED AT 16:24:03 ON 30 DEC 2008

L1 SCREEN 1942 AND 1992 AND 2006 AND 2016
 L2 STRUCTURE UPLOADED
 L3 QUE L2 AND L1
 L4 0 S L3 SSS SAM
 L5 0 S L2 SSS SAM

FILE 'REGISTRY' ENTERED AT 16:27:13 ON 30 DEC 2008

L6 SCREEN 1942 AND 1992 AND 2006 AND 2016
 L7 STRUCTURE UPLOADED
 L8 QUE L7 AND L6
 L9 0 S L8 SSS SAM

L10 0 S L7 SSS SAM
L11 5 S L7 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:28:19 ON 30 DEC 2008

L12 4 S L11
L13 1 S L12 AND PY<=2004

FILE 'MARPAT' ENTERED AT 16:29:09 ON 30 DEC 2008

L14 19 S L11 SSS SAM
L15 319 S L11 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:29:51 ON 30 DEC 2008

L16 319 S L15
L17 243 S L16 AND PY<=2004
L18 16 S L17 AND PHOSPHORAM?

=> d 117

L17 ANSWER 1 OF 243 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2008:120793 CAPLUS

DN 148:191863

TI Preparation of 1-benzazocine-5-carboxamides and related bicyclic compounds
as CCR-5 antagonists for use against HIV infectious and other diseases

IN Baba, Masanori; Seto, Masaki; Kanzaki, Naoyuki; Aikawa, Katsuji; Iizawa,
Yuji; Shiraishi, Mitsuru

PA Takeda Pharmaceutical Company Limited, Japan

SO Can. Pat. Appl., 288pp.

CODEN: CPXXEB

DT Patent

LA English

FAN.CNT 3

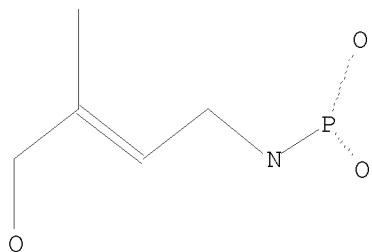
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	CA 2607992	A1	20030220	CA 2002-2607992	20020807 <--
	CA 2459172	A1	20030220	CA 2002-2459172	20020807 <--
	EP 1889839	A1	20080220	EP 2007-21230	20020807
	R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE, SK, TR				
	JP 2007084578	A	20070405	JP 2006-355701	20061228
PRAI	JP 2001-240750	A	20010808		
	JP 2002-66809	A	20020312		
	CA 2002-2459172	A3	20020807		
	EP 2002-762751	A3	20020807		
	JP 2002-229532	A3	20020807		
	WO 2002-JP8043	W	20020807		

OS MARPAT 148:191863

=> d 17

L7 HAS NO ANSWERS

L7 STR



Structure attributes must be viewed using STN Express query preparation.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	53.45	333.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-12.80	-16.00

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 16:31:39 ON 30 DEC 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

***** RECONNECTED TO STN INTERNATIONAL *****
 SESSION RESUMED IN FILE 'CAPLUS' AT 17:21:14 ON 30 DEC 2008
 FILE 'CAPLUS' ENTERED AT 17:21:14 ON 30 DEC 2008
 COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	53.45	333.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-12.80	-16.00

=> b reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	53.45	333.22
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-12.80	-16.00

FILE 'REGISTRY' ENTERED AT 17:21:25 ON 30 DEC 2008
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provided by InfoChem.

STRUCTURE FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7
DICTIONARY FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

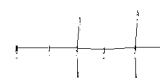
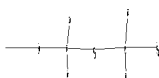
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Documents and Settings\jlaul\My Documents\10581144 - HDMAPP\genus3.str



```

chain nodes :
1  2  3  4  5  6  7  8  10  12
chain bonds :
1-2  1-10  2-3  2-7  2-8  3-4  4-5  4-6  4-12
exact/norm bonds :
1-2  1-10  2-3  2-7  2-8  3-4  4-5  4-6  4-12

```

G1:O,N

G2:C,O,N

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Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  10:CLASS
12:CLASS

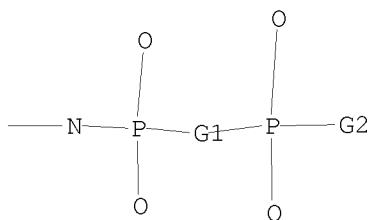
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L19 STRUCTURE UPLOADED

=> d 119

L19 HAS NO ANSWERS

L19 STR



G1 O,N

G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> s 119 sss sam

SAMPLE SEARCH INITIATED 17:21:43 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 69 TO ITERATE

100.0% PROCESSED 69 ITERATIONS

22 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 882 TO 1878

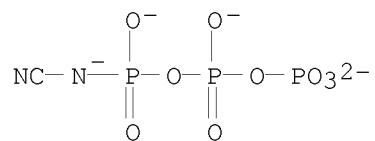
PROJECTED ANSWERS: 159 TO 721

L20 22 SEA SSS SAM L19

=> d 120 scan

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN P-Amidotriphosphoric acid, N-cyano-, ion(5-) (9CI)

MF C N2 O9 P3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

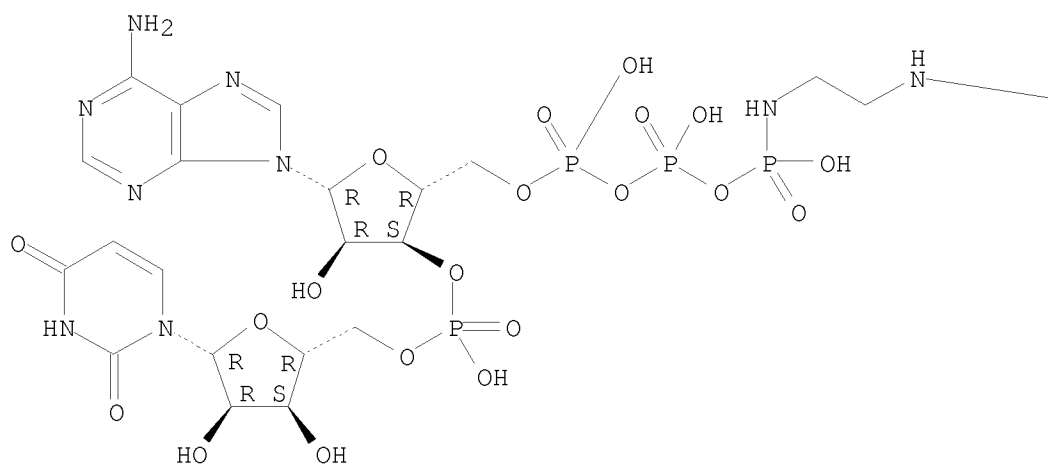
L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Uridine, 5'-O-[hydroxy[[hydroxy[[hydroxy[[2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]phosphinyl]oxy]phosphinyl]oxy]phosphinyl]adenylyl-(3'→5')- (9CI)

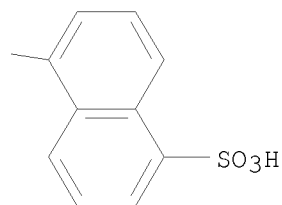
MF C31 H39 N9 O23 P4 S

Absolute stereochemistry.

PAGE 1-A



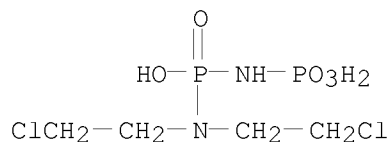
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Phosphoramidic acid, [[bis(2-chloroethyl)amino]hydroxyphosphinyl]- (9CI)
 MF C4 H12 Cl2 N2 O5 P2

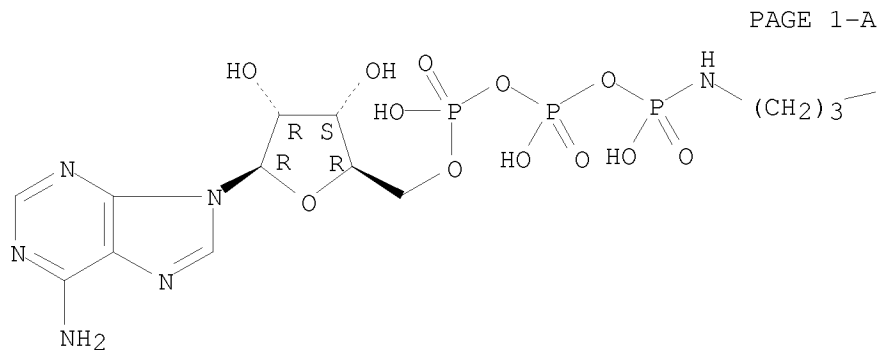


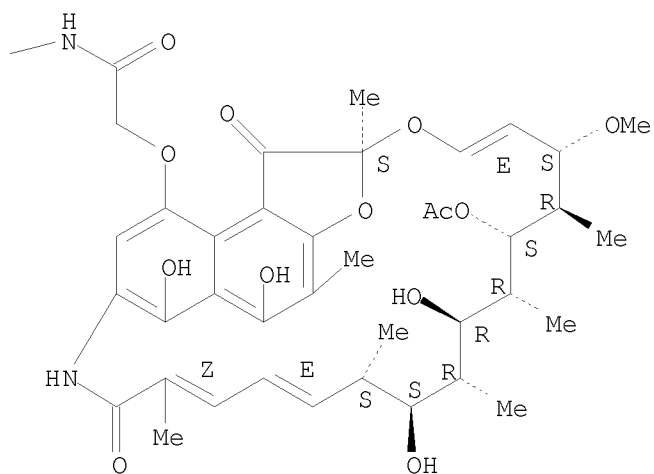
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Rifamycin, 4-O-[10-(5'-adenylyloxy)-8,10-dihydroxy-8,10-dioxido-2-oxo-9-oxa-3,7-diaza-8,10-diphosphadec-1-yl]- (9CI)
 MF C52 H71 N8 O25 P3

Absolute stereochemistry.
 Double bond geometry as described by E or Z.



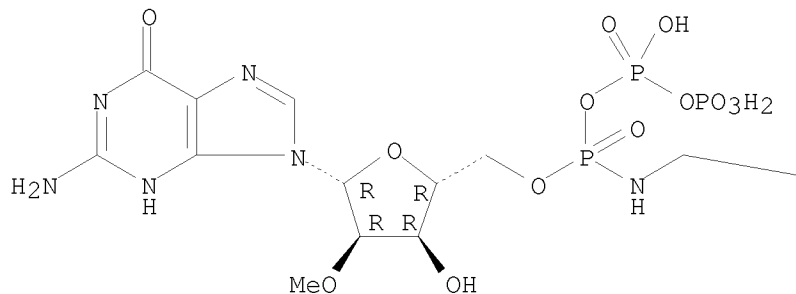


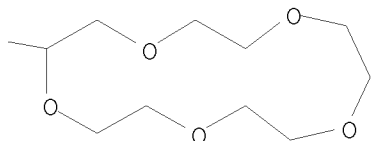
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Guanosine, 2'-O-methyl-, 5'-[hydrogen
 (1,4,7,10,13-pentaoxacyclopentadec-2-ylmethyl)phosphoramidate],
 monoanhydride with diphosphoric acid (9CI)
 MF C22 H39 N6 O18 P3

Absolute stereochemistry.



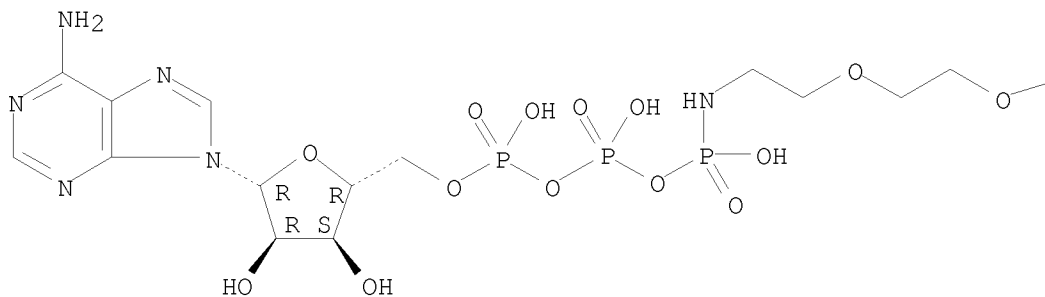


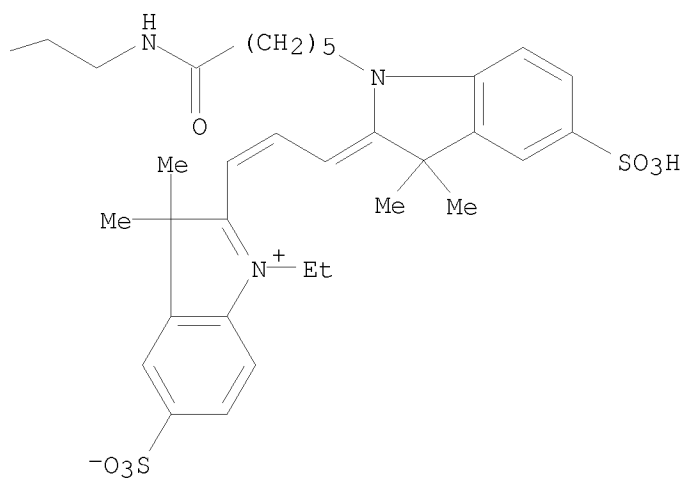
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Adenosine 5'-(trihydrogen diphosphate), P'→P-anhydride with
 2-[3-[1-(17,17-dihydroxy-17-oxido-6-oxo-10,13-dioxo-7,16-diaza-17-
 phosphahexadec-1-yl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-
 1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-3H-indolium inner salt
 MF C47 H66 N9 O21 P3 S2

Absolute stereochemistry.
 Double bond geometry unknown.

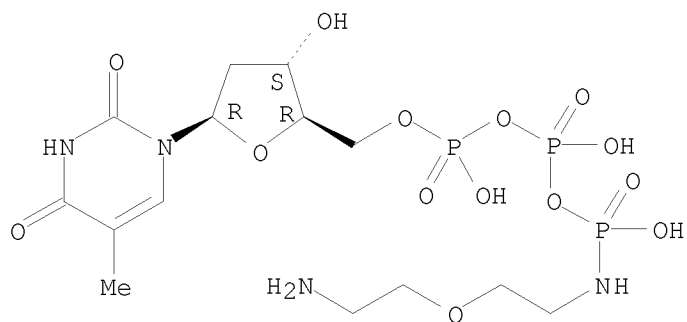




HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Thymidine 5'-(trihydrogen diphosphate), P'-anhydride with
 N-[2-(2-aminoethoxy)ethyl]phosphoramidic acid
 MF C14 H27 N4 O14 P3

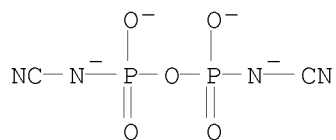
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, ion(4-) (9CI)
 MF C2 N4 O5 P2

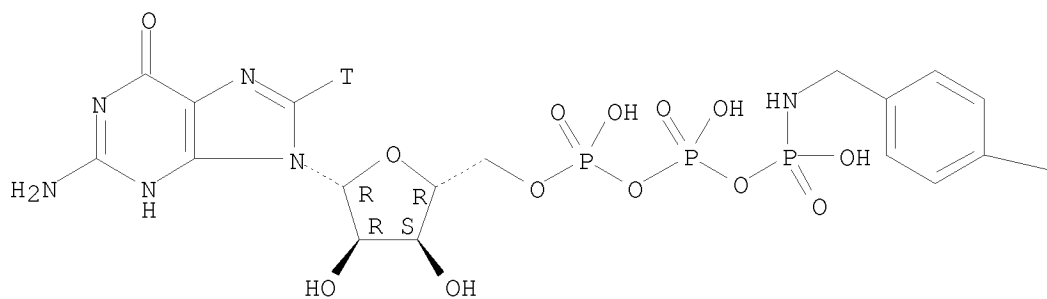


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

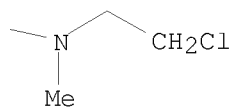
L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Guanosine-8-t 5'-(trihydrogen diphosphate), monoanhydride with
 [[4-[(2-chloroethyl)methylamino]phenyl]methyl]phosphoramidic acid (9CI)
 MF C20 H28 Cl N7 O13 P3 T

Absolute stereochemistry.

PAGE 1-A



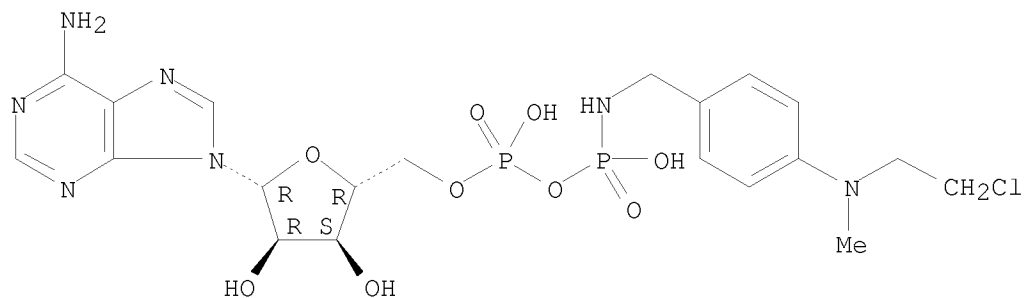
PAGE 1-B



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 5'-Adenylic acid, monoanhydride with
 [[4-[(2-chloroethyl)methylamino]phenyl]methyl]phosphoramidic acid,
 dilithium salt (9CI)
 MF C20 H28 Cl N7 O9 P2 . 2 Li

Absolute stereochemistry.



● 2 Li

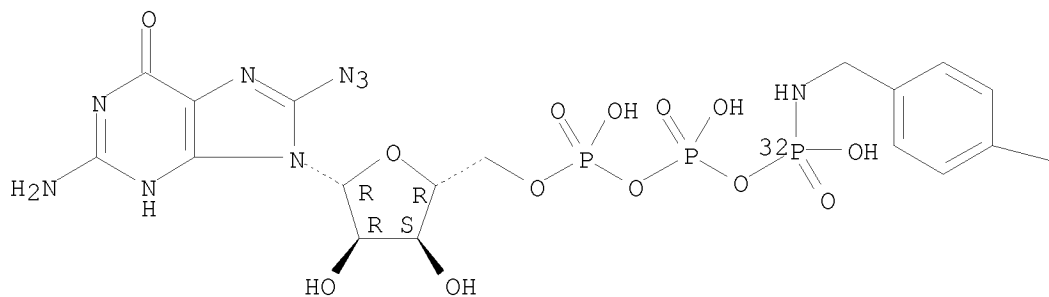
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Guanosine 5'-(trihydrogen diphosphate), 8-azido-, P'-anhydride with
 [(4-benzoylphenyl)methyl]phosphoramidic-³²P acid, compd. with
 N,N-diethylethanamine (1:3) (9CI)
 MF C24 H26 N9 O14 P3 . 3 C6 H15 N

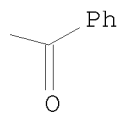
CM 1

Absolute stereochemistry.

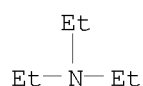
PAGE 1-A



PAGE 1-B



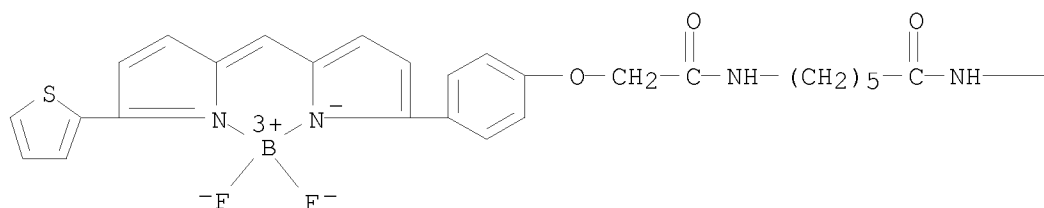
CM 2



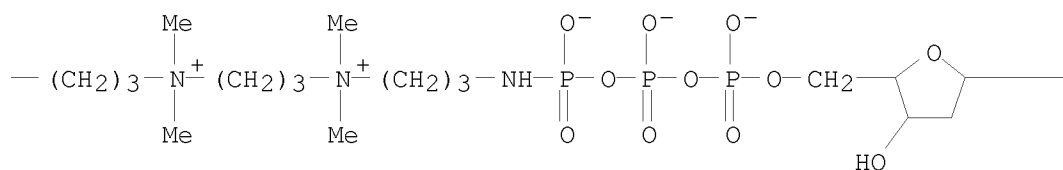
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Borate(1-), difluoro[5'→P''-[4,4,8,8-tetramethyl-13,20-dioxo-21-[4-[5-[5-(2-thienyl)-2H-pyrrol-2-ylidene-κN]methyl]-1H-pyrrol-2-yl-κN]phenoxy]-12,19-diaza-4,8-diazoniabeneicos-1-yl]-P-amidotriphosphate] 2'-deoxyguanosinato(4-)]-, hydrogen, (T-4)- (9CI)
 MF C50 H69 B F2 N12 O15 P3 S . H
 CI CCS

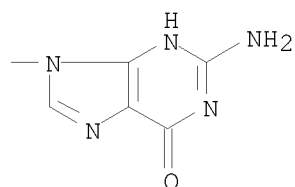
PAGE 1-A



PAGE 1-B



PAGE 1-C



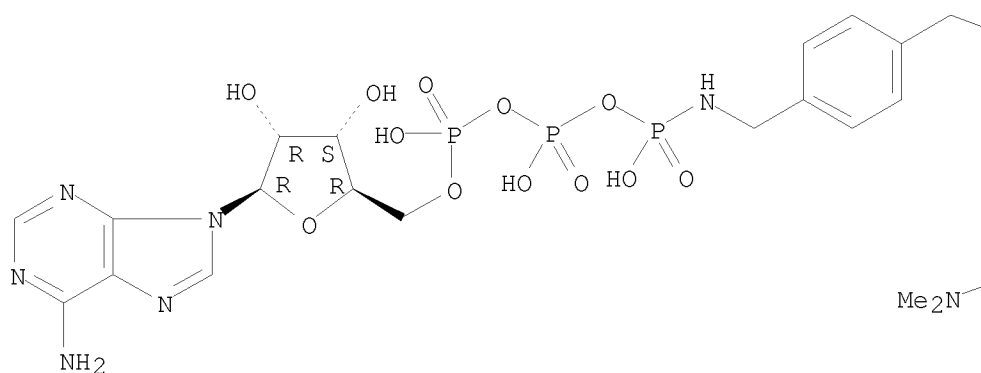
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Adenosine 5'-(trihydrogen diphosphate), P'→P-anhydride with

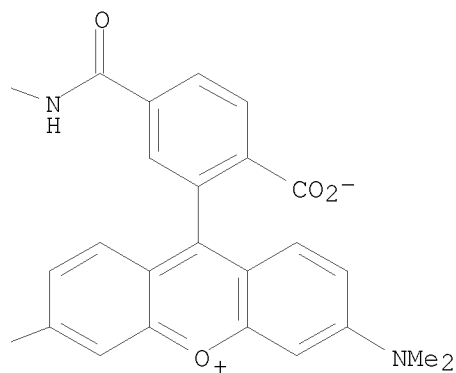
9-[2-carboxy-5-[[[4-[(phosphonoamino)methyl]phenyl]methyl]amino]carbonyl]
phenyl]-3,6-bis(dimethylamino)xanthylium inner salt
MF C43 H46 N9 O16 P3

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

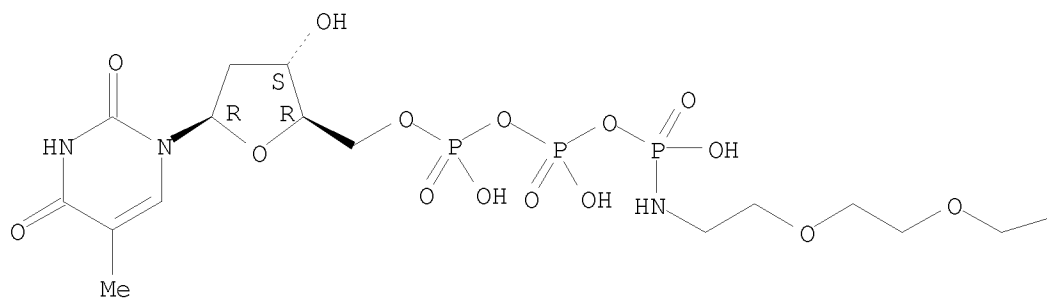


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

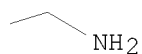
L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Thymidine 5'-(trihydrogen diphosphate), P'-anhydride with
N-[2-[2-(2-aminoethoxy)ethoxy]ethyl]phosphoramidic acid
MF C16 H31 N4 O15 P3

Absolute stereochemistry.

PAGE 1-A



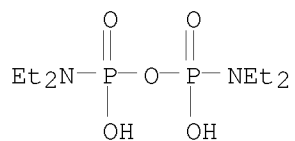
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN P,P'-Diamidodiphosphoric acid, N,N,N',N'-tetraethyl- (9CI)
MF C8 H22 N2 O5 P2
CI COM

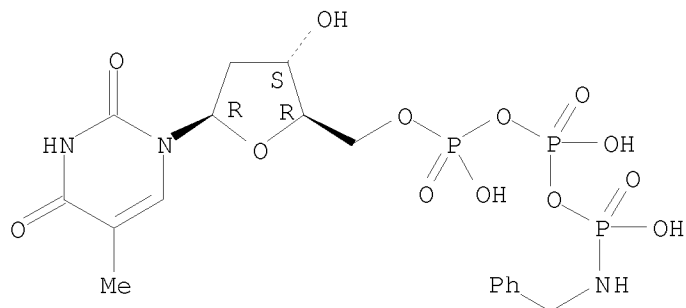


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L20 22 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Thymidine 5'-(trihydrogen diphosphate), monoanhydride with
(phenylmethyl)phosphoramidic acid (9CI)
MF C17 H24 N3 O13 P3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> b stng

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	1.38	334.60
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

FILE 'STNGUIDE' ENTERED AT 17:23:29 ON 30 DEC 2008
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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Dec 19, 2008 (20081219/UP).

=> b reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.06	334.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

FILE 'REGISTRY' ENTERED AT 17:23:57 ON 30 DEC 2008
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 provided by InfoChem.

STRUCTURE FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7
 DICTIONARY FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

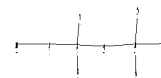
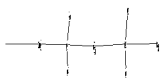
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>

Uploading C:\Documents and Settings\jlau1\My Documents\10581144 - HDMAPP\genus4.str



chain nodes :
1 2 3 4 5 6 7 8 10 12
chain bonds :
1-2 1-10 2-3 2-7 2-8 3-4 4-5 4-6 4-12
exact/norm bonds :
1-2 1-10 2-3 2-7 2-8 3-4 4-5 4-6 4-12

G1:O,N

G2:C,O,N

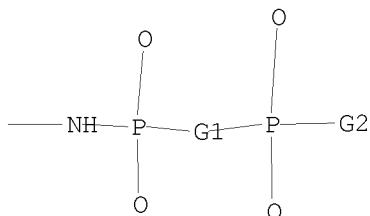
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12:CLASS

L21 STRUCTURE UPLOADED

=> d 121

L21 HAS NO ANSWERS

L21 STR



G1 O,N

G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> s 121 sss sam

SAMPLE SEARCH INITIATED 17:24:14 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 69 TO ITERATE

100.0% PROCESSED 69 ITERATIONS

19 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**

PROJECTED ITERATIONS: 882 TO 1878

PROJECTED ANSWERS: 119 TO 641

L22 19 SEA SSS SAM L21

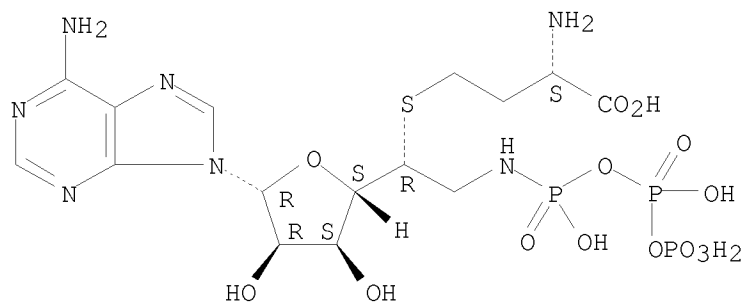
=> d 122 scan

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 9H-Purin-6-amine, 9-[5-S-(3-amino-3-carboxypropyl)-6-deoxy-6-
 [[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]amino]-5-thio-
 β-D-allofuranosyl]-, tetrasodium salt, (S)- (9CI)

MF C15 H26 N7 O14 P3 S . 4 Na

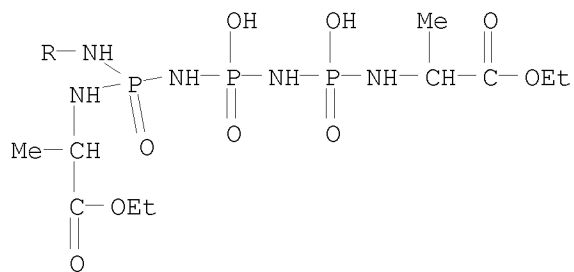
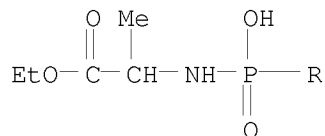
Absolute stereochemistry.



● 4 Na

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 3,5,7,9,11-Pentaaza-4,6,8,10-tetraphosphatridecanedioic acid,
 6-[(2-ethoxy-1-methyl-2-oxoethyl)amino]-4,8,10-trihydroxy-2,12-dimethyl-,
 diethyl ester, 4,6,8,10-tetraoxide, stereoisomer (9CI)
 MF C15 H36 N6 O13 P4

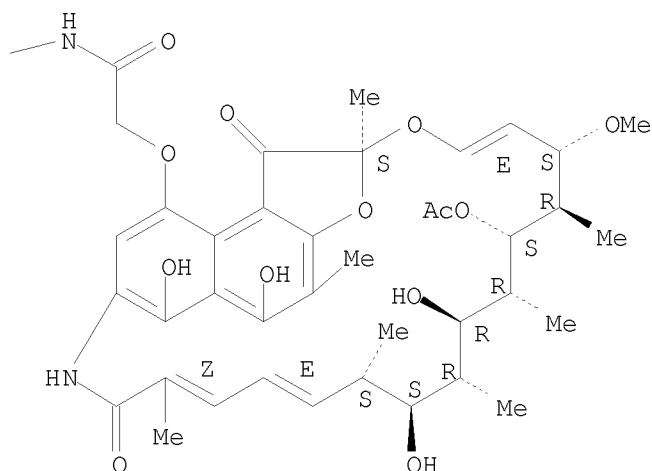
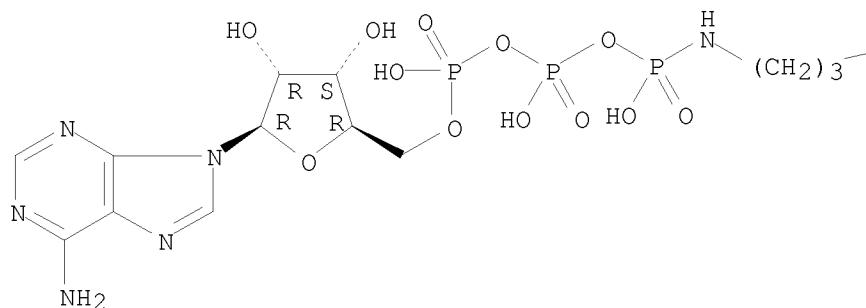


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Rifamycin, 4-O-[10-(5'-adenylyloxy)-8,10-dihydroxy-8,10-dioxido-2-oxo-9-
 oxa-3,7-diaza-8,10-diphosphadec-1-yl]- (9CI)
 MF C52 H71 N8 O25 P3

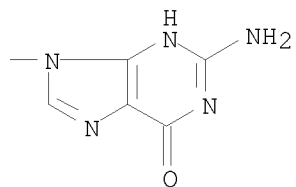
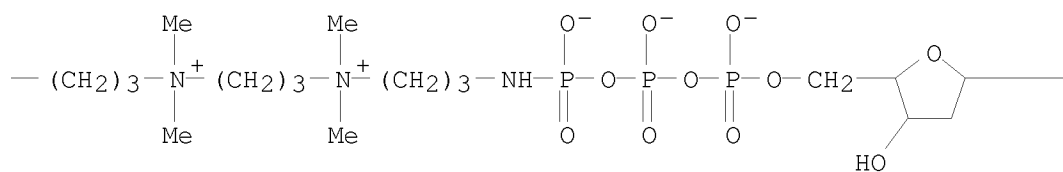
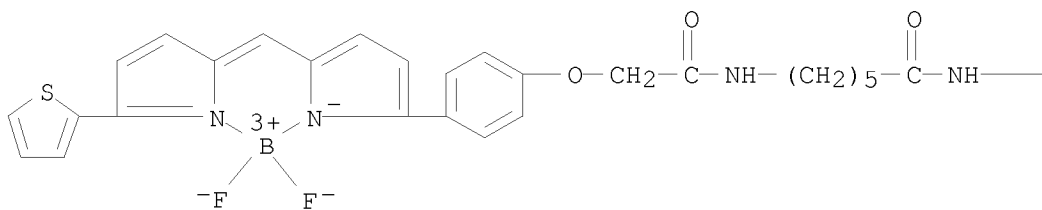
Absolute stereochemistry.
 Double bond geometry as described by E or Z.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

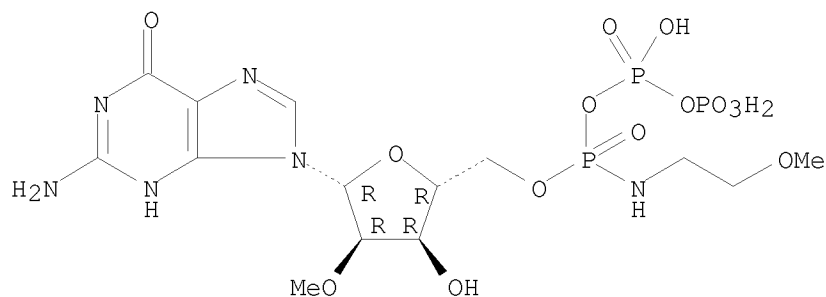
L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Borate(1-), difluoro[5'→P''-[4,4,8,8-tetramethyl-13,20-dioxo-21-[4-[5-[[5-(2-thienyl)-2H-pyrrol-2-ylidene-κN]methyl]-1H-pyrrol-2-yl-κN]phenoxy]-12,19-diaza-4,8-diazoniaheneicos-1-yl]-P-amidotriphosphate] 2'-deoxyguanosinato(4-)]-, hydrogen, (T-4)- (9CI)
 MF C50 H69 B F2 N12 O15 P3 S . H
 CI CCS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Guanosine, 2'-O-methyl-, 5'-[hydrogen (2-methoxyethyl)phosphoramidate],
 monoanhydride with diphosphoric acid (9CI)
 MF C14 H25 N6 O14 P3

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

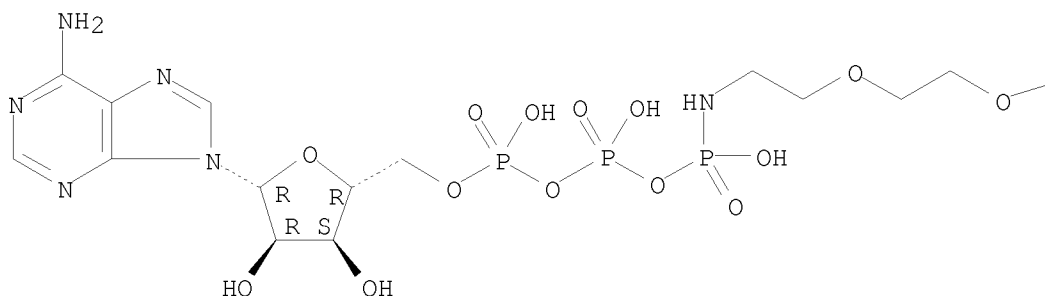
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

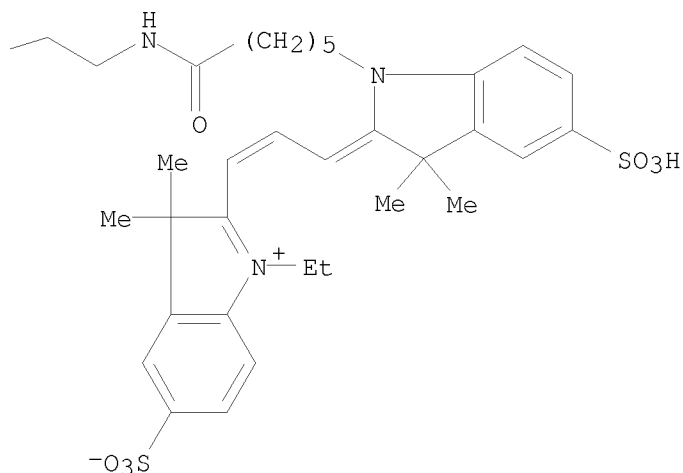
IN Adenosine 5'-(trihydrogen diphosphate), P'→P-anhydride with
2-[3-[1-(17,17-dihydroxy-17-oxido-6-oxo-10,13-dioxo-7,16-diaza-17-
phosphaheptadec-1-yl)-1,3-dihydro-3,3-dimethyl-5-sulfo-2H-indol-2-ylidene]-
1-propen-1-yl]-1-ethyl-3,3-dimethyl-5-sulfo-3H-indolium inner salt
MF C47 H66 N9 O21 P3 S2

Absolute stereochemistry.
Double bond geometry unknown.

PAGE 1-A



PAGE 1-B



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

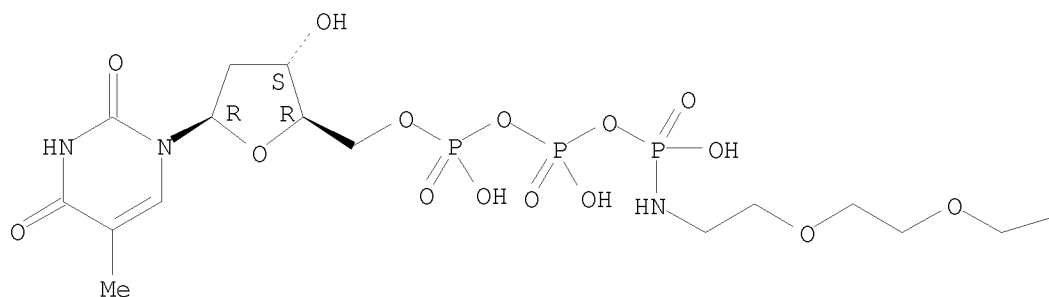
L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Thymidine 5'-(trihydrogen diphosphate), P'-anhydride with
N-[2-[2-(2-aminoethoxy)ethoxy]ethyl]phosphoramidic acid

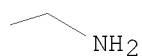
MF C16 H31 N4 O15 P3

Absolute stereochemistry.

PAGE 1-A



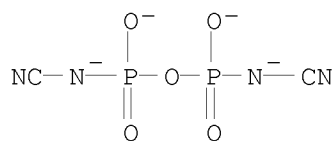
PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

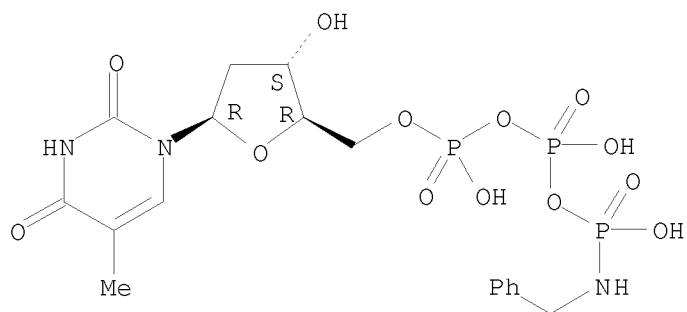
L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, ion(4-) (9CI)
MF C2 N4 O5 P2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Thymidine 5'-(trihydrogen diphosphate), monoanhydride with
(phenylmethyl)phosphoramidic acid (9CI)
MF C17 H24 N3 O13 P3

Absolute stereochemistry.



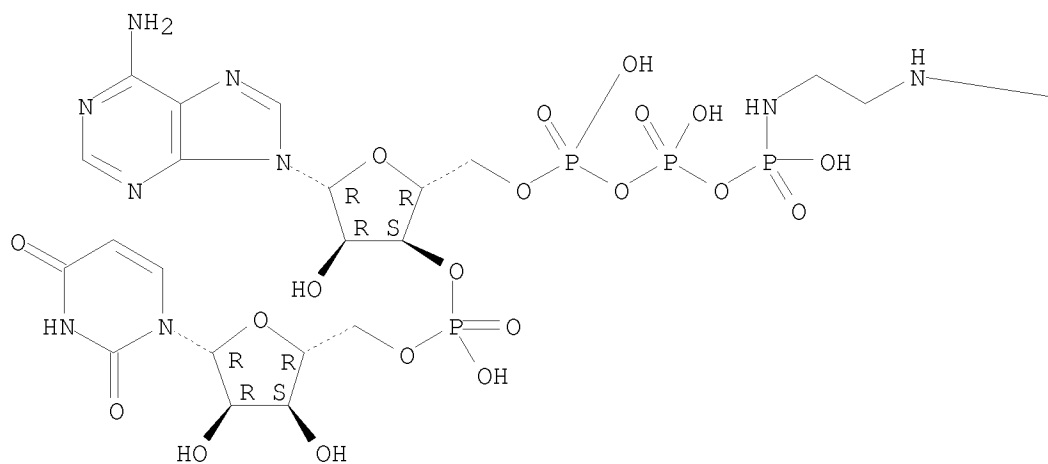
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

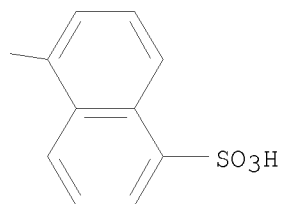
L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Uridine, 5'-O-[hydroxy[[hydroxy[[hydroxy[[2-[(5-sulfo-1-naphthalenyl)amino]ethyl]amino]phosphinyl]oxy]phosphinyl]oxy]phosphinyl]adenyl-1-(3'→5')- (9CI)
 MF C31 H39 N9 O23 P4 S

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

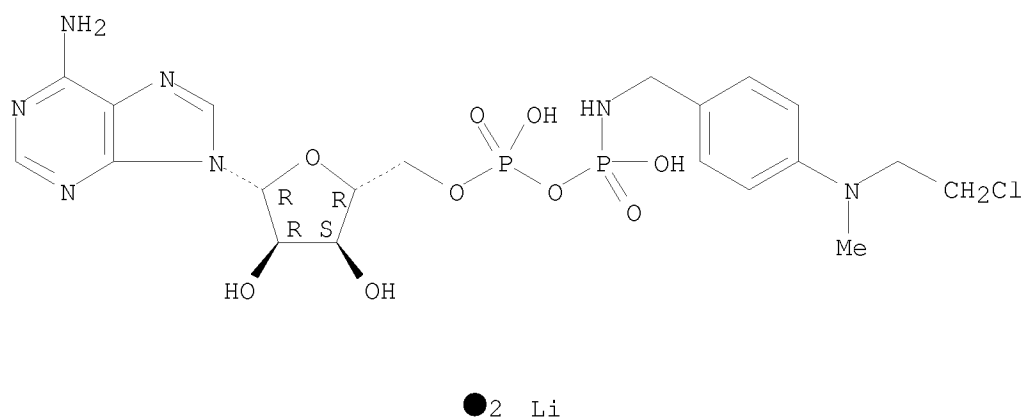
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN 5'-Adenylic acid, monoanhydride with
[[4-[(2-chloroethyl)methylamino]phenyl]methyl]phosphoramidic acid,
dilithium salt (9CI)

MF C20 H28 Cl N7 O9 P2 . 2 Li

Absolute stereochemistry.



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

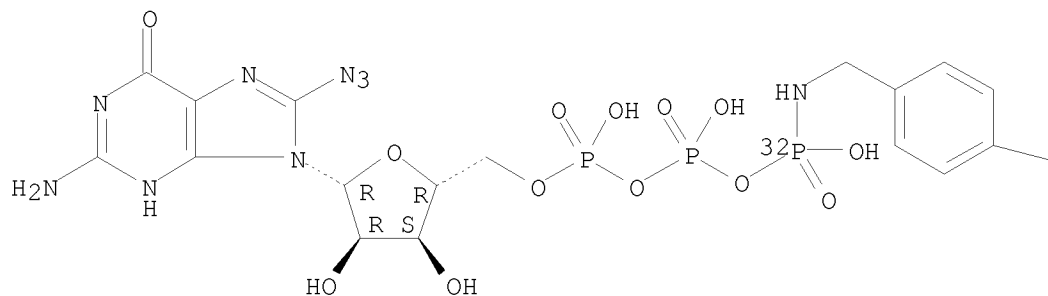
L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

IN Guanosine 5'-(trihydrogen diphosphate), 8-azido-, P'-anhydride with
[(4-benzoylphenyl)methyl]phosphoramidic-32P acid, compd. with
N,N-diethylethanamine (1:3) (9CI)

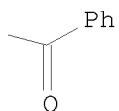
MF C24 H26 N9 O14 P3 . 3 C6 H15 N

CM 1

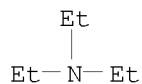
Absolute stereochemistry.



PAGE 1-A



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN

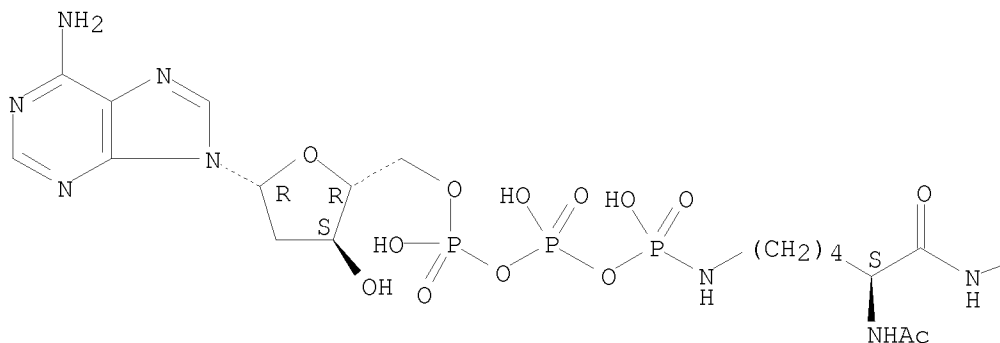
IN L-Lysinamide, N-[4-[3,6-bis(dimethylamino)xanthylum-9-yl]-3-carboxybenzoyl]-L-serylglycyl-L-tyrosyl-L-seryl-L-arginyl-L-seryl-L-threonylglycyl-L-tyrosyl-L-arginyl-N6-[N2-acetyl-N6-[N2-acetyl-N6-[[(2'-deoxy-5'-adenyl)oxy]hydroxyphosphinyl]oxy]hydroxyphosphinyl]-L-lysyl]-L-lysyl]-, inner salt (9CI)

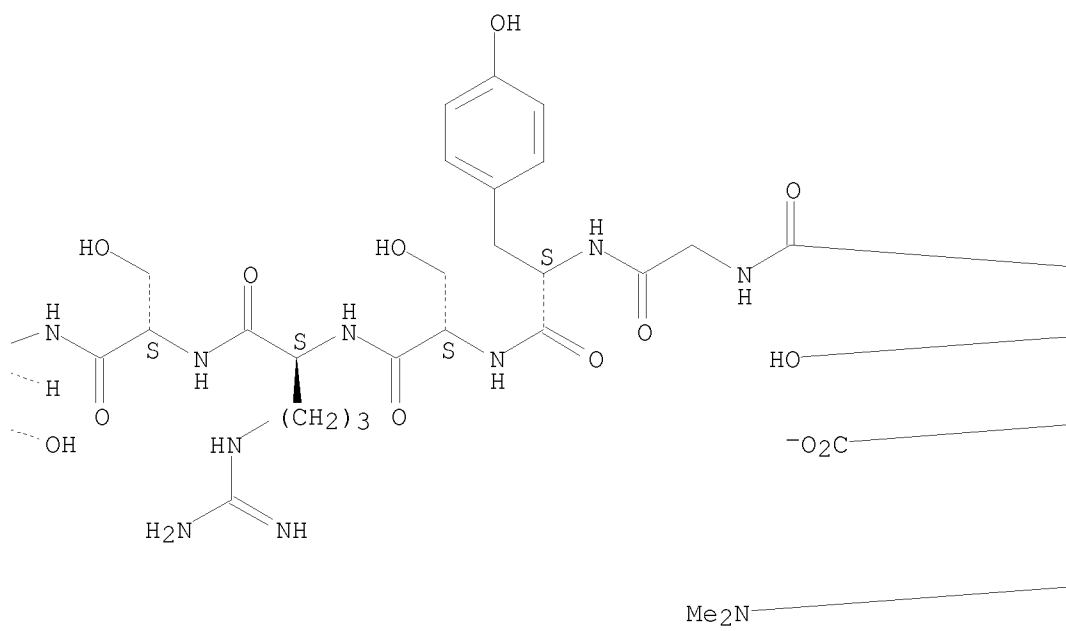
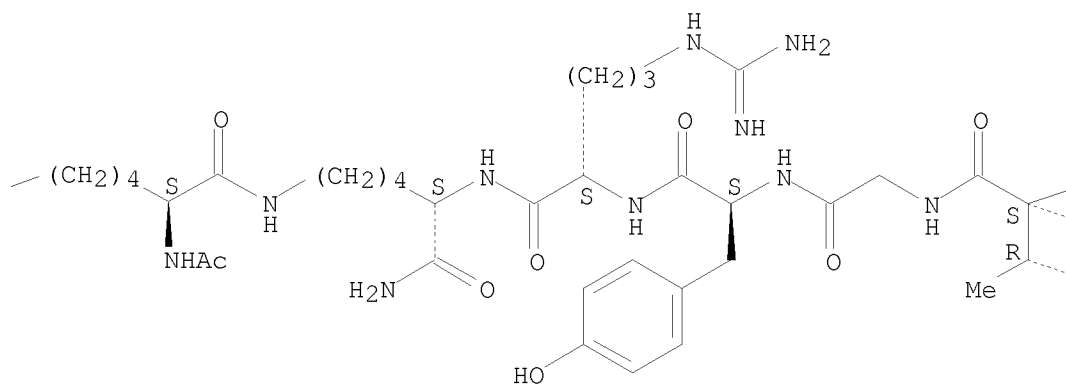
SQL 13,11,1,1

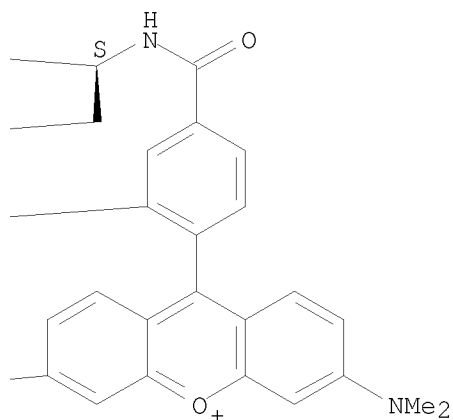
MF C104 H147 N30 O36 P3

RELATED SEQUENCES AVAILABLE WITH SEQLINK

Absolute stereochemistry.



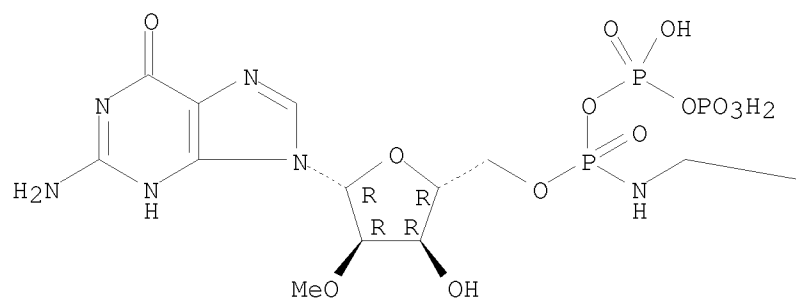


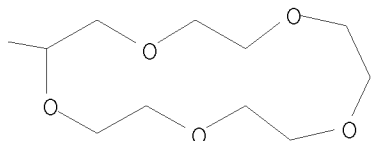


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Guanosine, 2'-O-methyl-, 5'-[hydrogen
 (1,4,7,10,13-pentaoxacyclopentadec-2-ylmethyl)phosphoramidate],
 monoanhydride with diphosphoric acid (9CI)
 MF C22 H39 N6 O18 P3

Absolute stereochemistry.



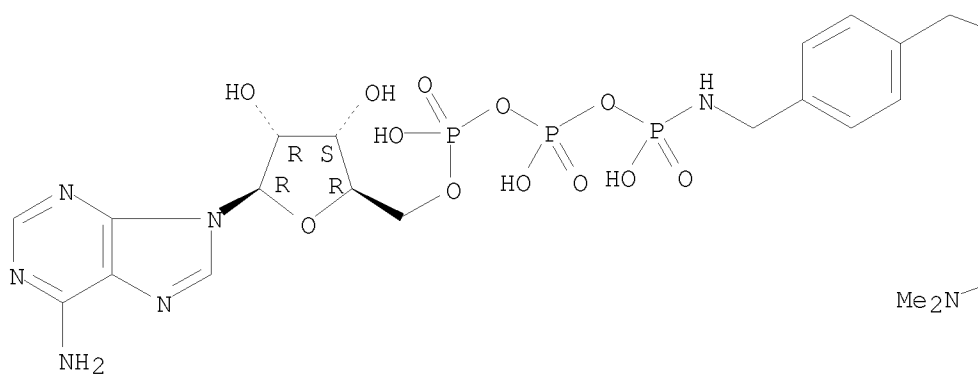


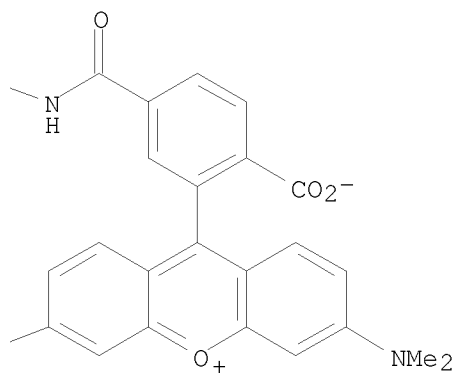
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Adenosine 5'-(trihydrogen diphosphate), P'→P-anhydride with
 9-[2-carboxy-5-[[[4-[(phosphonoamino)methyl]phenyl]methyl]amino]carbonyl]
 phenyl]-3,6-bis(dimethylamino)xanthylum inner salt
 MF C43 H46 N9 O16 P3

Absolute stereochemistry.

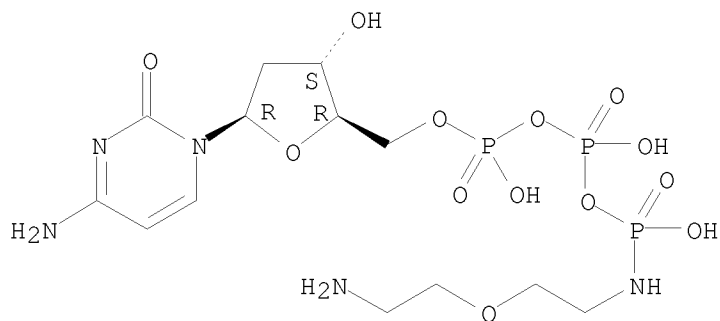




HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Cytidine 5'-(trihydrogen diphosphate), 2'-deoxy-, P'-anhydride with
 N-[2-(2-aminoethoxy)ethyl]phosphoramidic acid
 MF C13 H26 N5 O13 P3

Absolute stereochemistry.

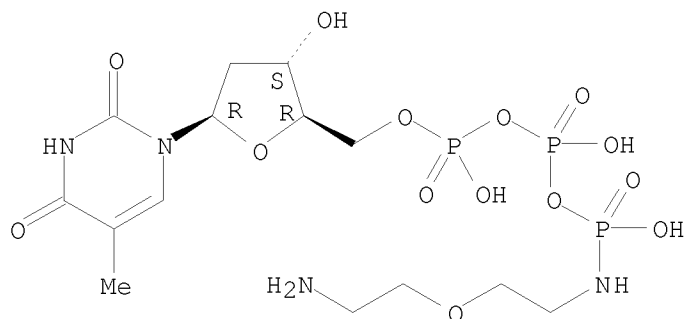


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Thymidine 5'-(trihydrogen diphosphate), P'-anhydride with
 N-[2-(2-aminoethoxy)ethyl]phosphoramidic acid
 MF C14 H27 N4 O14 P3

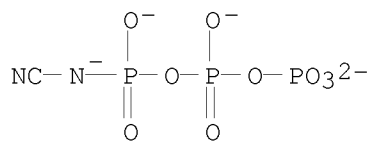
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN P-Amidotriphosphoric acid, N-cyano-, ion(5-) (9CI)
 MF C N2 O9 P3

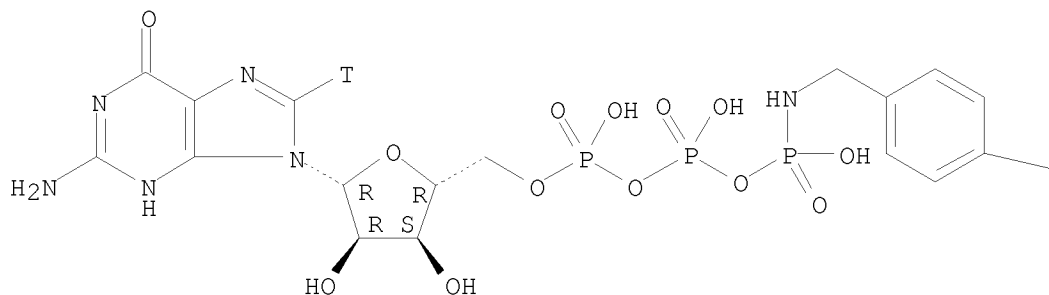


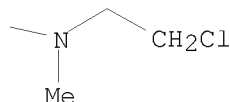
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L22 19 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Guanosine-8-t 5'-(trihydrogen diphosphate), monoanhydride with
 [[4-[(2-chloroethyl)methylamino]phenyl]methyl]phosphoramidic acid (9CI)
 MF C20 H28 Cl N7 O13 P3 T

Absolute stereochemistry.

PAGE 1-A





ALL ANSWERS HAVE BEEN SCANNED

=> 1

1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> 1

1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> e P-Amidotriphosphoric acid, N-cyano-/cn

E1	1	P-AMIDOTRIPHOSPHORIC ACID, N-(AMINOCARBONYL)-/CN
E2	1	P-AMIDOTRIPHOSPHORIC ACID, N-(AMINOCARBONYL)-, TETRAAMMONIUM SALT/CN
E3	1 -->	P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-/CN
E4	1	P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-, CALCIUM SALT (2:5)/CN
E5	1	P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-, ION(5-)/CN
E6	1	P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-, PENTAAMMONIUM SALT/CN
E7	1	P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-, PENTASILVER(1+) SALT/CN
E8	1	P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-, PENTASODIUM SALT/CN
E9	1	P-AMIDOTRIPHOSPHORIC ACID, N-ETHYL-/CN
E10	1	P-AMIDOTRIPHOSPHORIC ACID, N-METHYL-/CN
E11	1	P-AMIDOTRIPHOSPHORIC ACID, N-METHYL-, SILVER SALT/CN
E12	1	P-AMIDOTRIPHOSPHORIC ACID, TETRAAMMONIUM SALT/CN

=> s e3

L23 1 "P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-"/CN

=> d 123

L23 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 687611-05-8 REGISTRY

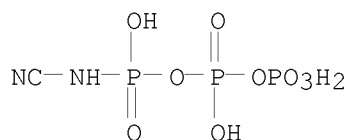
ED Entered STN: 30 May 2004

CN P-Amidotriphosphoric acid, N-cyano- (9CI) (CA INDEX NAME)

MF C H5 N2 O9 P3

CI COM

SR CA



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	9.45	344.11
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

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 FILE LAST UPDATED: 29 Dec 2008 (20081229/ED)

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=> s 123

L24 0 L23

=> b reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.48	344.59
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION

CA SUBSCRIBER PRICE 0.00 -16.00

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DICTIONARY FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

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experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.46	345.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

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LAST RELOADED: Dec 19, 2008 (20081219/UP).

=> b reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.06	345.11
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

FILE 'REGISTRY' ENTERED AT 17:27:38 ON 30 DEC 2008
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STRUCTURE FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7
DICTIONARY FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=> e P,P'-Diamidodiphosphoric acid, N,N'-dicyano-/cn

E1	1	P,P-DIAMIDODIPHOSPHORIC ACID, N,N,N',N'-TETRAMETHYL-, MONOETHYL ESTER/CN
E2	1	P,P-DIAMIDODIPHOSPHORIC ACID, N,N,N',N'-TETRAMETHYL-, NICKEL COMPLEX/CN
E3	0 -->	P,P-DIAMIDODIPHOSPHORIC ACID, N,N-DICYANO-/CN
E4	1	P,P-DIAMIDODIPHOSPHORIC ACID, NICKEL(2+) DERIV./CN
E5	1	P,P-DIAMIDODIPHOSPHORIC ACID, STRONTIUM(2+) DERIV./CN
E6	1	P,P-DIAMIDODIPHOSPHORIC(III,V) ACID/CN
E7	1	P,P-DIAMIDODIPHOSPHORIC(III,V) ACID, TETRAMETHYL-, DIETHYL ESTER/CN
E8	1	P,P-DIAMIDODIPHOSPHOROUS ACID/CN
E9	3	P,P-DIAMIDODIPHOSPHOROUS ACID, MOLYBDENUM DERIV./CN
E10	1	P,P-DIAMIDODIPHOSPHOROUS ACID, N,N,N',N'-TETRAETHYL-, BIS(1-METHYLETHYL) ESTER/CN
E11	1	P,P-DIAMIDODIPHOSPHOROUS ACID, N,N,N',N'-TETRAETHYL-, DIBUTYL ESTER/CN
E12	1	P,P-DIAMIDODIPHOSPHOROUS ACID, N,N,N',N'-TETRAETHYL-, DIETHYL ESTER, MOLYBDENUM COMPLEX/CN

=> e

E13	2	P,P-DIAMIDODIPHOSPHOROUS ACID, N,N,N',N'-TETRAKIS(1-METHYLETHYL)-, DIETHYL ESTER, MOLYBDENUM COMPLEX/CN
E14	1	P,P-DIAMIDOHYPODIPHOSPHOROUS DICHLORIDE, N,N,N',N'-TETRAKIS(1-METHYLETHYL)-/CN
E15	1	P,P-DIAMIDOHYPOPHOSPHORIC(III,V) ACID/CN
E16	1	P,P-DIAMIDOHYPOPHOSPHORIC(III,V) ACID, N,N,N',N'-TETRAETHYL-, BIS(1-METHYLETHYL) ESTER/CN
E17	1	P,P-DIAMIDOHYPOPHOSPHORIC(III,V) ACID, N,N,N',N'-TETRAETHYL-, DIBUTYL ESTER/CN
E18	1	P,P-DIAMIDOHYPOPHOSPHORIC(III,V) ACID, N,N,N',N'-TETRAKIS(1-METHYLETHYL)-, DIETHYL ESTER/CN
E19	1	P,P-DIAMIDOIMIDODIPHOSPHORIC ACID/CN
E20	1	P,P-DIAMIDOIMIDODIPHOSPHORIC ACID, DIMETHYL ESTER/CN
E21	1	P,P-DIAMIDOIMIDODIPHOSPHORIC ACID, N''-ETHYL-N,N,N',N'-TETRAMETHYL-/CN
E22	1	P,P-DIAMIDOIMIDODIPHOSPHORIC ACID, N''-ETHYL-N,N,N',N'-TETRAMETHYL-, DIETHYL ESTER/CN
E23	1	P,P-DIAMIDOIMIDODIPHOSPHORIC ACID, N,N'-DIPHENYL-/CN
E24	1	P,P-DIAMIDOIMIDODIPHOSPHORIC ACID, N,N'-DIPHENYL-, DIPHENYL ESTER/CN

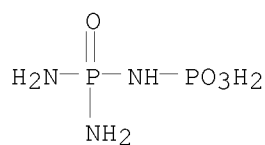
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E26      1      P,P-DIAMIDOIMIDODIPHOSPHORIC ACID, N,N,N',N'-TETRAMETHYL-, D
            IBUTYL ESTER/CN
E27      1      P,P-DIAMIDOIMIDODIPHOSPHORIC ACID, PENTAMETHYL-/CN
E28      1      P,P-DIAMIDOIMIDODIPHOSPHORIC(III,V) ACID, N,N,N',N'-TETRAETH
            YL-N''-METHYL-, DIMETHYL ESTER/CN
E29      1      P,P-DIAMIDOPYROPHOSPHORIC ACID/CN
E30      1      P,P-DIAMIDOPYROPHOSPHORIC ACID, N,N'-DIPHENYL-, DIHEPTACOSYL
            ESTER/CN
E31      1      P,P-DIAMIDOPYROPHOSPHORIC ACID, N,N,N',N'-TETRAMETHYL-, DIET
            HYL ESTER/CN
E32      1      P,P-DIAMIDOPYROPHOSPHORIC ACID, N,N,N',N'-TETRAMETHYL-, DIET
            HYL ESTER, COMPD. WITH ANTIMONY CHLORIDE (SBCL5) (1:2)/CN
E33      1      P,P-DIAMIDOPYROPHOSPHORIC ACID, N,N,N',N'-TETRAMETHYL-, DIET
            HYL ESTER, COMPD. WITH ANTIMONY CHLORIDE (SBCL5) (2:1)/CN
E34      1      P,P-DIAMIDOPYROPHOSPHORIC ACID, N,N-DIETHYL-N',N'-DIMETHYL-,
            DIBUTYL ESTER/CN
E35      1      P,P-DIAMIDOPYROPHOSPHORIC ACID, N,N-DIETHYL-N',N'-DIMETHYL-,
            DIETHYL ESTER/CN
E36      1      P,P-DIAMIDOPYROPHOSPHORIC ACID, N,N-DIETHYL-N',N'-DIMETHYL-,
            ETHYL METHYL ESTER/CN
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=> s e19

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L25      1      "P,P-DIAMIDOIMIDODIPHOSPHORIC ACID"/CN
```

=> d 125

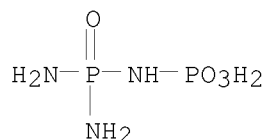
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L25      ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN       27212-85-7  REGISTRY
ED       Entered STN:  16 Nov 1984
CN       P,P-Diamidoimidodiphosphoric acid (9CI)  (CA INDEX NAME)
MF       H7 N3 O4 P2
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> d 125

```
L25      ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2008 ACS on STN
RN       27212-85-7  REGISTRY
ED       Entered STN:  16 Nov 1984
CN       P,P-Diamidoimidodiphosphoric acid (9CI)  (CA INDEX NAME)
MF       H7 N3 O4 P2
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> s 3,5,7,9,11-Pentaaza-4,6,8,10-tetraphosphatridecanedioic acid,
6-[(2-ethoxy-1-methyl-2-oxoethyl)amino]-4,8,10-trihydroxy-2,12-dimethyl-,diethyl
ester, 4,6,8,10-tetraoxide/cn
MISSING OPERATOR '6-[(2-ETHOXY-1'

=> e 3,5,7,9,11-Pentaaza-4,6,8,10-tetraphosphatridecanedioic acid,
6-[(2-ethoxy-1-methyl-2-oxoethyl)amino]-4,8,10-trihydroxy-2,12-dimethyl-,diethyl
ester, 4,6,8,10-tetraoxide/cn

E1 1 3,5,7,9,11-PENTAAZA-4,6,8,10-TETRAPHOSPHATRIDEKANEDIOIC ACID
, 4,6,8,10-TETRAHYDROXY-2,12-DIMETHYL-, DIETHYL ESTER, 4,6,8
,10-TETRAOXIDE, (S-(R*,R*))-/CN

E2 1 3,5,7,9,11-PENTAAZA-4,6,8,10-TETRAPHOSPHATRIDEKANEDIOIC ACID
, 6,8-BIS((2-ETHOXY-1-METHYL-2-OXOETHYL)AMINO)-4,10-DIHYDROX
Y-2,12-DIMETHYL-, DIETHYL ESTER, 4,6,8,10-TETRAOXIDE, STEREO
ISOMER/CN

E3 0 --> 3,5,7,9,11-PENTAAZA-4,6,8,10-TETRAPHOSPHATRIDEKANEDIOIC ACID
, 6-(2-ETHOXY-1-METHYL-2-OXOETHYL)AMINO-4,8,10-TRIHIDROXY-
2,12-DIMETHYL-, DIETHYL ESTER, 4,6,8,10-TETRAOXIDE/CN

E4 1 3,5,7,9,11-PENTAAZA-4,6,8,10-TETRAPHOSPHATRIDEKANEDIOIC ACID
, 6-((2-ETHOXY-1-METHYL-2-OXOETHYL)AMINO)-4,8,10-TRIHIDROXY-
2,12-DIMETHYL-, DIETHYL ESTER, 4,6,8,10-TETRAOXIDE, STEREOIS
OMER/CN

E5 1 3,5,7,9,11-PENTAKIS(CHLOROMETHYL)-1,1,1,3,5,7,9,11,13,13,13-
UNDECAMETHYLHEPTASILIOXANE/CN

E6 1 3,5,7,9,11-PENTAOXA-14-AZA-2,4,6,8,10,12-HEXASILAHEXADECANE/
CN

E7 1 3,5,7,9,11-PENTAOXA-14-AZA-2,4,6,8,10,12-HEXASILAHEXADECANE,
14-ETHYL-2,2,4,4,6,6,8,8,10,10,12,12-DODECAMETHYL-/CN

E8 1 3,5,7,9,11-PENTAOXA-14-AZA-2,4,6,8,10,12-HEXASILAHEXADECANE,
14-ETHYL-2,2,4,4,6,6,8,8,10,10,12,12-DODECAMETHYL-, HYDROCH
LORIDE/CN

E9 1 3,5,7,9,11-PENTAOXA-2,4,6,8,10,12-HEXASILAPENTADECAN-15-AMIN
IUM, 2-HYDROXY-12,12-BIS((METHANOMETHAN)OXY)-N,N,N,2,4,4,6,6
,8,8,10,10-DODECAMETHYL-, CHLORIDE (1:1)/CN

E10 1 3,5,7,9,11-PENTAOXA-2,4,6,8,10,12-HEXASILATETRADEC-13-ENE-2,
12-DIOL, 2,4,4,6,6,8,8,10,10,12-DECAMETHYL-/CN

E11 1 3,5,7,9,11-PENTAOXA-2,4,6,8,10,12-HEXASILATRIDEKAN-2-OL, 10-
((DIMETHYLPHENYLSILYL)OXY)-4-((5-((DIMETHYLPHENYLSILYL)OXY)-
1,1,3,3,5,7,7-HEPTAMETHYL-7-PHENYL-1-TETRASILOXANYL)OXY)-2,4
,6,6,8,8,10,12-OCTAM/CN

E12 1 3,5,7,9,11-PENTAOXA-2,4,6,8,10,12-HEXASILATRIDEKAN-2-OL, 12-
CHLORO-2,4,4,6,6,8,8,10,10,12-DECAMETHYL-/CN

=> s e4

L26 1 "3,5,7,9,11-PENTAAZA-4,6,8,10-TETRAPHOSPHATRIDEKANEDIOIC ACID,
6-((2-ETHOXY-1-METHYL-2-OXOETHYL)AMINO)-4,8,10-TRIHIDROXY-2,12-D

IMETHYL-, DIETHYL ESTER, 4,6,8,10-TETRAOXIDE, STEREOISOMER"/CN

=> d 126

L26 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 146299-35-6 REGISTRY

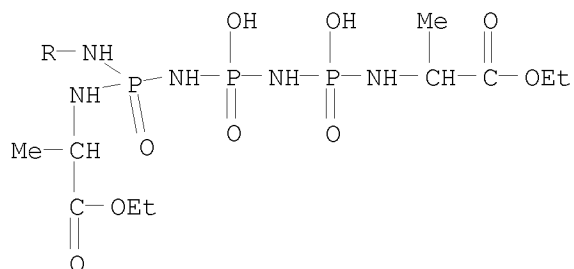
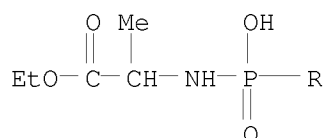
ED Entered STN: 05 Mar 1993

CN 3,5,7,9,11-Pentaaza-4,6,8,10-tetraphosphatridecanedioic acid,
6-[(2-ethoxy-1-methyl-2-oxoethyl)amino]-4,8,10-trihydroxy-2,12-dimethyl-,
diethyl ester, 4,6,8,10-tetraoxide, stereoisomer (9CI) (CA INDEX
NAME)

MF C15 H36 N6 O13 P4

SR CA

LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> b caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.68

362.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

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-16.00

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FILE COVERS 1907 - 30 Dec 2008 VOL 150 ISS 1
FILE LAST UPDATED: 29 Dec 2008 (20081229/ED)

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=> s 126

L27 1 L26

=> d 127

L27 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1993:125016 CAPLUS
DN 118:125016
OREF 118:21701a,21704a
TI Fast atom bombardment in the structural identification of intermediates in
the hydrolytic degradation of polyphosphazenes
AU Caliceti, P.; Veronese, F. M.; Marsilio, F.; Lora, S.; Seraglia, R.;
Traldi, P.
CS Dip. Sci. Farm., Univ. Padova, Padua, 35100, Italy
SO Organic Mass Spectrometry (1992), 27(11), 1199-202
CODEN: ORMSBG; ISSN: 0030-493X
DT Journal
LA English

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.69	364.48
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 19, 2008 (20081219/UP).

=>

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'STNGUIDE' AT 17:31:58 ON 30 DEC 2008
FILE 'STNGUIDE' ENTERED AT 17:31:58 ON 30 DEC 2008
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)
COST IN U.S. DOLLARS

	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.12	364.60

	SINCE FILE	TOTAL
	ENTRY	SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	0.00	-16.00

=> b caplus

	SINCE FILE	TOTAL
	ENTRY	SESSION
COST IN U.S. DOLLARS		
FULL ESTIMATED COST	0.12	364.60

	SINCE FILE	TOTAL
	ENTRY	SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	0.00	-16.00

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FILE COVERS 1907 - 30 Dec 2008 VOL 150 ISS 1
FILE LAST UPDATED: 29 Dec 2008 (20081229/ED)

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=> s phosphoramidate not (nucleo!ide)

2439 PHOSPHORAMIDATE
1072 PHOSPHORAMIDATES
2830 PHOSPHORAMIDATE
(PHOSPHORAMIDATE OR PHOSPHORAMIDATES)

535925 NUCLEO!IDE
L28 2194 PHOSPHORAMIDATE NOT (NUCLEO!IDE)

=> s 128 and py<=2003
24028314 PY<=2003
L29 1855 L28 AND PY<=2003

=> 129 and (t cells)
L29 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s \129 and (t cells)
365 \L29
('L29')
957607 T
2153005 CELLS
2 CELLSES
2153006 CELLS
(CELLS OR CELLSES)
106271 T CELLS
(T(W)CELLS)
L30 5 \L29 AND (T CELLS)

=> s 129 and (t cells)
957607 T
2153005 CELLS
2 CELLSES
2153006 CELLS
(CELLS OR CELLSES)
106271 T CELLS
(T(W)CELLS)
L31 0 L29 AND (T CELLS)

=> logoff hold		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	17.92	382.52
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

SESSION WILL BE HELD FOR 120 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 17:33:40 ON 30 DEC 2008

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssptajsl1623

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 17:42:42 ON 30 DEC 2008

FILE 'CAPLUS' ENTERED AT 17:42:42 ON 30 DEC 2008
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.92	382.52
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

=> b reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	18.40	383.00
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-16.00

FILE 'REGISTRY' ENTERED AT 17:43:03 ON 30 DEC 2008
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STRUCTURE FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7
DICTIONARY FILE UPDATES: 29 DEC 2008 HIGHEST RN 1091682-77-7

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>Testing the current file.... screen

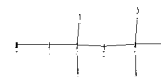
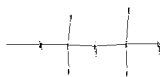
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1838

L32 SCREEN CREATED

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Uploading C:\Documents and Settings\jlau1\My Documents\10581144 - HDMAPP\genus5.str



```

chain nodes :
1  2  3  4  5  6  7  8  10  12
chain bonds :
1-2  1-10  2-3  2-7  2-8  3-4  4-5  4-6  4-12
exact/norm bonds :
1-2  1-10  2-3  2-7  2-8  3-4  4-5  4-6  4-12

```

G1:O,N

G2:C,O,N

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Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  10:CLASS
12:CLASS

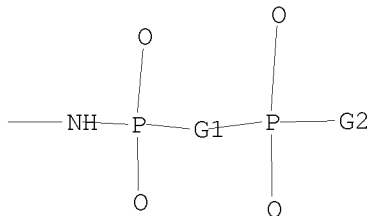
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L33 STRUCTURE UPLOADED

=> que L33 NOT L32

L34 QUE L33 NOT L32

=> d 133
 L33 HAS NO ANSWERS
 L33 STR



G1 O,N
 G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> s 134 sss sam
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 SAMPLE SCREEN SEARCH COMPLETED - 13 TO ITERATE

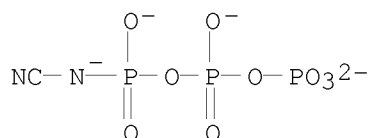
100.0% PROCESSED 13 ITERATIONS 3 ANSWERS
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
 PROJECTED ITERATIONS: 44 TO 476
 PROJECTED ANSWERS: 3 TO 163

L35 3 SEA SSS SAM L33 NOT L32

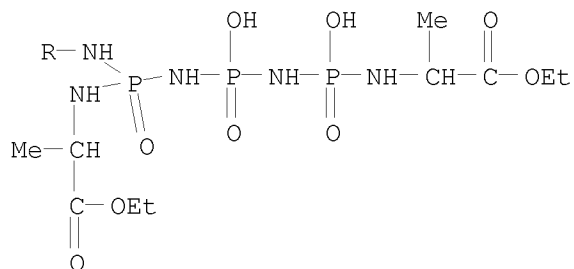
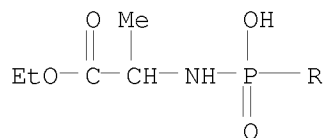
=> d 135 scan

L35 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN P-Amidotriphosphoric acid, N-cyano-, ion(5-) (9CI)
 MF C N2 O9 P3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

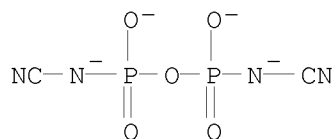
L35 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 3,5,7,9,11-Pentaaza-4,6,8,10-tetraphosphatridecanedioic acid,
 6-[(2-ethoxy-1-methyl-2-oxoethyl)amino]-4,8,10-trihydroxy-2,12-dimethyl-,
 diethyl ester, 4,6,8,10-tetraoxide, stereoisomer (9CI)
 MF C15 H36 N6 O13 P4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L35 3 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, ion(4-) (9CI)
 MF C2 N4 O5 P2



ALL ANSWERS HAVE BEEN SCANNED

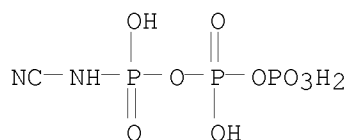
=> s l34 sss full
 FULL SEARCH INITIATED 17:43:41 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 268 TO ITERATE

100.0% PROCESSED 268 ITERATIONS 82 ANSWERS
 SEARCH TIME: 00.00.01

L36 82 SEA SSS FUL L33 NOT L32

=> d l36 scan

L36 82 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN P-Amidotriphosphoric acid, N-cyano-, pentasilver(1+) salt (9CI)
 MF C H5 N2 O9 P3 . 5 Ag

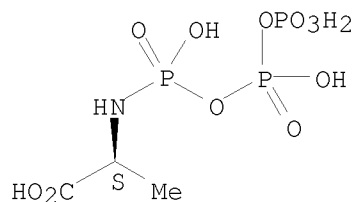


●5 Ag(I)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L36 82 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN 2,4-Dioxa-6-aza-1,3,5-triphosphaoctan-8-oic acid,
 1,1,3,5-tetrahydroxy-7-methyl-, 1,3,5-trioxide, (S)- (9CI)
 MF C3 H10 N O11 P3

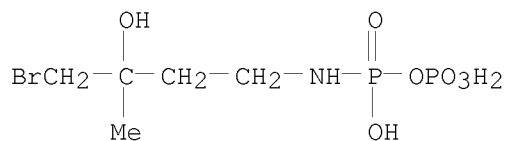
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L36 82 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Amidodiphosphoric acid, (4-bromo-3-hydroxy-3-methylbutyl)-, disodium salt
 (9CI)
 MF C5 H14 Br N O7 P2 . 2 Na

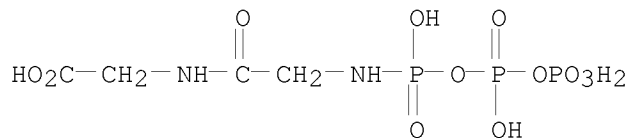


●2 Na

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L36 82 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
 IN Glycine, N-[N-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]gly

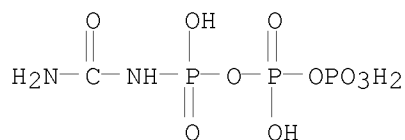
cyl]- (9CI)
MF C4 H11 N2 O12 P3



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L36 82 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN P-Amidotriphosphoric acid, N-(aminocarbonyl)-, tetraammonium salt (9CI)
MF C H7 N2 O10 P3 . 4 H3 N



●4 NH₃

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):b caplus
'B CAPLUS' IS NOT VALID HERE

To display more answers, enter the number of answers you would like to see. To end the display, enter "NONE", "N", "0", or "END".
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> b caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	178.82	561.82
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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=> s 136

L37 43 L36

=> s 137 and py<=2003

24028314 PY<=2003

L38 34 L37 AND PY<=2003

=> d 138 1-34 ibib abs hitstr

L38 ANSWER 1 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:563171 CAPLUS

DOCUMENT NUMBER: 138:4338

TITLE: Synthesis of N-(O-hydroxyalkyl)triphosphoramidates by inorganic cyclo-triphosphate

AUTHOR(S): Inoue, Hideko; Nakayama, Hirokazu; Tsuhako, Mitsutomo

CORPORATE SOURCE: Department of Functional Molecular Chemistry, Kobe

Pharmaceutical University, Kobe, 658-8558, Japan

SOURCE: Phosphorus Research Bulletin (2001), 12, 65-72

CODEN: PREBE7; ISSN: 0918-4783

PUBLISHER: Japanese Association of Inorganic Phosphorus Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 138:4338

AB The phosphorylation of amino alcs. has been achieved using inorg. sodium cyclo-triphosphate hexahydrate, Na₃P₃O₉·6H₂O, in aqueous solution. The main phosphorylated products were imidotriphosphates of amino alcs. as evidenced by ¹H, ¹³C, and ³¹P NMR spectra. In the phosphorylation of 3-amino-1-propanol, 4-amino-1-butanol, and 5-amino-1-pentanol, only their amino groups were phosphorylated to give imidotriphosphates, with their maximum yields of more than 97 %.

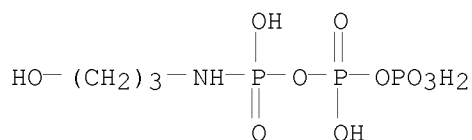
IT 476658-47-6P 476658-49-8P 476658-51-2P

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis of N-(O-hydroxyalkyl)triphosphoramidates by phosphorylation of amino alcs. using inorg. cyclo-triphosphate)

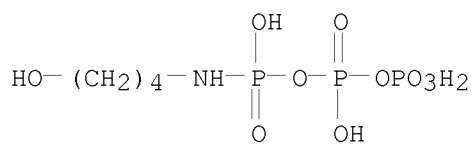
RN 476658-47-6 CAPLUS

CN P-Amidotriphosphoric acid, N-(3-hydroxypropyl)-, barium salt (1:2) (9CI) (CA INDEX NAME)



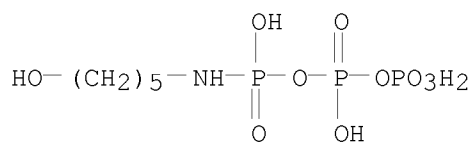
●2 Ba

RN 476658-49-8 CAPLUS
 CN P-Amidotriphosphoric acid, N-(4-hydroxybutyl)-, barium salt (1:2) (9CI)
 (CA INDEX NAME)



●2 Ba

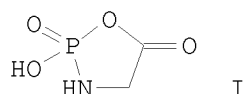
RN 476658-51-2 CAPLUS
 CN P-Amidotriphosphoric acid, N-(5-hydroxypentyl)-, barium salt (1:2) (9CI)
 (CA INDEX NAME)



●2 Ba

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 2 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1994:324192 CAPLUS
 DOCUMENT NUMBER: 120:324192
 ORIGINAL REFERENCE NO.: 120:57069a,57072a
 TITLE: Formation of dipeptide in the reaction of amino acids
 with cyclo-triphosphate
 AUTHOR(S): Inoue, Hideko; Baba, Yoshinobu; Furukawa, Tomoko;
 Maeda, Yasuyo; Tshuhako, Mitsutomo
 CORPORATE SOURCE: Kobe Women's Coll. Pharm., Kobe, 658, Japan
 SOURCE: Chemical & Pharmaceutical Bulletin (1993),
 41(11), 1895-9
 CODEN: CPBTAL; ISSN: 0009-2363
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



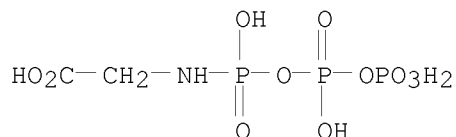
AB The reaction of Gly or Ala with inorg. sodium cyclotriphosphate hexahydrate (Na₃P₃O₉·6H₂O, P3m) gave dipeptides and N-phosphorylated amino acids, but the reaction of Val or Ser with P3m showed no peptide formation. Gly reacted with P3m to give H₂O₃P-Gly-OH, five-membered ring cyclic anhydride I, H₂O₃P-Gly-Gly-OH, triphosphoramidate H₃O₉P₃-Gly-OH (II), and H-Gly-Gly-OH. I was formed via an intramol. cyclization of II, and was a key intermediate for the production of H-Gly-Gly-OH. Phosphorylation of Ala with P3m also gave H-Ala-Ala-OH in addition to the phosphorylated products including the five-membered cyclic anhydride. The yields of H-Gly-Gly-OH and H-Ala-Ala-OH were 15.8 and 2.0%, resp. In the reactions of Val and Ser with P3m, only H₂O₃P-Val-OH and H₂O₃P-Ser-OH were formed; their dipeptides were not obtained at all. The mechanism of the dipeptide formation is discussed.

IT 155179-90-1P 155179-91-2P

RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in condensation of cyclotriphosphate with alanine)

RN 155179-90-1 CAPLUS

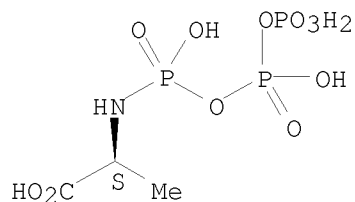
CN Glycine, N-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]- (CA INDEX NAME)



RN 155179-91-2 CAPLUS

CN 2,4-Dioxa-6-aza-1,3,5-triphosphaoctan-8-oic acid,
1,1,3,5-tetrahydroxy-7-methyl-, 1,3,5-trioxide, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 3 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1993:125016 CAPLUS

DOCUMENT NUMBER: 118:125016

ORIGINAL REFERENCE NO.: 118:21701a,21704a

TITLE: Fast atom bombardment in the structural identification of intermediates in the hydrolytic degradation of

polyphosphazenes

AUTHOR(S): Caliceti, P.; Veronese, F. M.; Marsilio, F.; Lora, S.; Seraglia, R.; Traldi, P.

CORPORATE SOURCE: Dip. Sci. Farm., Univ. Padova, Padova, 35100, Italy

SOURCE: Organic Mass Spectrometry (1992), 27(11), 1199-202

CODEN: ORMSBG; ISSN: 0030-493X

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Fast atom bombardment mass spectrometry was employed in a study related to the hydrolytic degradation of alanine Et ester and imidazole-substituted polyphosphazenes, to be used as matrixes for drug release. Some intermediates were identified and their structural assignment was accomplished by means of mass-analyzed ion kinetic energy data. All the detected species show the same phosphazene skeleton, consisting of a P4N3 chain, with an increasing number of alanine Et ester substituents, and no evidence was found for the presence of imidazole bound to the polymer backbone.

IT 146299-33-4 146299-34-5 146299-35-6

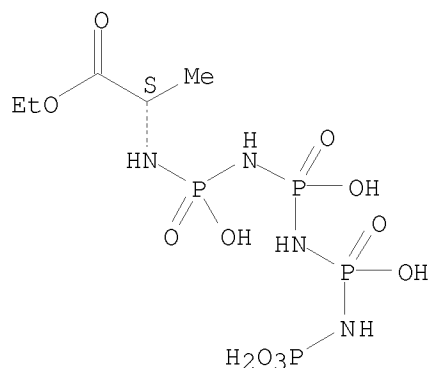
RL: PRP (Properties)

(fast-atom-bombardment mass spectrometry of)

RN 146299-33-4 CAPLUS

CN 2,4,6,8-Tetraaza-1,3,5,7-tetraphosphadecan-10-oic acid,
1,1,3,5,7-pentahydroxy-9-methyl-, ethyl ester, 1,3,5,7-tetraoxide, (S)-
(9CI) (CA INDEX NAME)

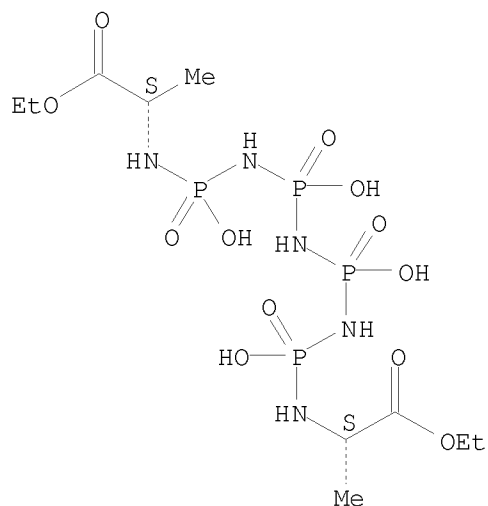
Absolute stereochemistry.



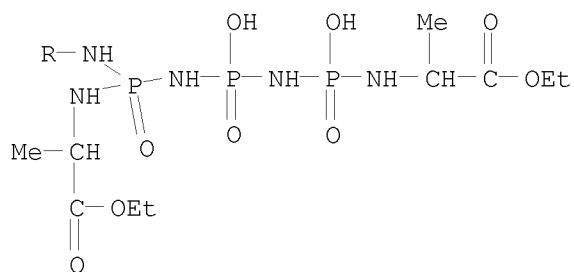
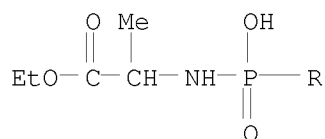
RN 146299-34-5 CAPLUS

CN 3,5,7,9,11-Pentaaza-4,6,8,10-tetraphosphatridecanedioic acid,
4,6,8,10-tetrahydroxy-2,12-dimethyl-, diethyl ester, 4,6,8,10-tetraoxide,
[S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 146299-35-6 CAPLUS
 CN 3,5,7,9,11-Pentaaza-4,6,8,10-tetraphosphatridecanedioic acid,
 6-[(2-ethoxy-1-methyl-2-oxoethyl)amino]-4,8,10-trihydroxy-2,12-dimethyl-,
 diethyl ester, 4,6,8,10-tetraoxide, stereoisomer (9CI) (CA INDEX NAME)



L38 ANSWER 4 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1990:583728 CAPLUS
 DOCUMENT NUMBER: 113:183728
 ORIGINAL REFERENCE NO.: 113:30901a,30904a
 TITLE: Non-enzymic phosphate condensation in dilute aqueous
 media - the effect of alkyl substituents on sulfamide
 Gard, David R.
 AUTHOR(S):
 CORPORATE SOURCE: Deterg. Phosphates Div., Monsanto Chem. Co., St.
 Louis, MO, 63167, USA
 SOURCE: Phosphorus, Sulfur and Silicon and the Related
 Elements (1990), 51-52(1-4), 145-8
 CODEN: PSSLEC; ISSN: 1042-6507
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The reactions of RR'NSO₂NH₂ (R = Bu, R' = H; R = R' = Me) with P2074- and P30105- in dilute aqueous solution were examined to determine the reaction requirements

with respect to the relative position of amino hydrogens. A nucleophilic attack by the sulfamide anion on the phosphate is postulated, resulting in the cyclocondensation of P30105- to P3093- and the formation of RNHP2063- (R = Bu, H). The major reaction pathway leads to the formation of H₂NSO₃-.

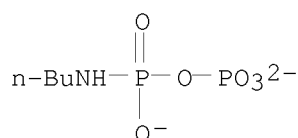
IT 129888-72-8P, Butylaminodiphosphate

RL: FORM (Formation, nonpreparative); PREP (Preparation)

(formation of, in phosphate condensation by alc.-substituted sulfamides)

RN 129888-72-8 CAPLUS

CN Amidodiphosphoric acid, butyl-, ion(3-) (9CI) (CA INDEX NAME)



L38 ANSWER 5 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1990:194305 CAPLUS

DOCUMENT NUMBER: 112:194305

ORIGINAL REFERENCE NO.: 112:32749a,32752a

TITLE: Phosphorus-containing inhibitors of aspartate transcarbamoylase from Escherichia coli

AUTHOR(S): Laing, Naomi; Chan, William W. C.; Hutchinson, David W.; Oeberg, Bo

CORPORATE SOURCE: Med. Cent., McMaster Univ., Hamilton, ON, L8N 3Z5, Can.

SOURCE: FEBS Letters (1990), 260(2), 206-8
CODEN: FEBLAL; ISSN: 0014-5793

DOCUMENT TYPE: Journal

LANGUAGE: English

AB N-Pyrophosphoryl-L-aspartate was prepared as a charged analog of the postulated reaction intermediate of aspartate transcarbamoylase. Surprisingly, its affinity for the enzyme from E. coli was substantially lower than that of the previously known inhibitor phosphonoacetyl-L-aspartate, which contains a trigonal carbonyl group. Similar results were obtained with the corresponding mercaptosuccinate derivs. A number of new pyrophosphate analogs were also tested as inhibitors. The results cast doubt on some aspects of the current model for the mechanism of this enzyme.

IT 126884-21-7P

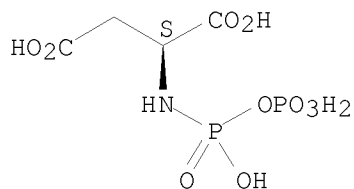
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and aspartate transcarbamoylase of Escherichia coli inhibition kinetics with, structure in relation to)

RN 126884-21-7 CAPLUS

CN L-Aspartic acid, N-[hydroxy(phosphonooxy)phosphinyl]- (CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 6 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:71465 CAPLUS

DOCUMENT NUMBER: 110:71465

ORIGINAL REFERENCE NO.: 110:11711a,11714a

TITLE: Condensation of oligoglycines with trimeta- and tetrametaphosphate in aqueous solutions

AUTHOR(S): Yamanaka, Junpei; Inomata, Katsuhiko; Yamagata, Yukio

CORPORATE SOURCE: Fac. Sci., Kanazawa Univ., Kanazawa, 920, Japan

SOURCE: Origins of Life and Evolution of the Biosphere (1988), 18(3), 165-78

CODEN: OLEBEM; ISSN: 0169-6149

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 110:71465

AB The dehydration condensation of glycine with trimetaphosphate in aqueous solution

was reinvestigated. The condensation of oligoglycines with trimeta- and tetrametaphosphate in aqueous solution is possibly through the formation of their

acylphosphates under neutral or weak acidic conditions. Aqueous solns. of 1.0M glycylglycine and 1.0M trimetaphosphate were incubated at 38° and pH 4.0-9.0. The solns. were analyzed by HPLC with a ninhydrin reaction system. Tetraglycine and hexaglycine were detected and their maximum yields were given in the reaction at pH .apprx.7. They are .apprx.15% and 4% after 30 days, resp. Analogous expts. were performed with tetrametaphosphate. The results showed a similar pH dependence for the condensation, but the yields were .apprx.1/10 of those of corresponding expts. with trimetaphosphate. Relative rates of dimerization of glycine, diglycine, and triglycine in the equimolar concentration

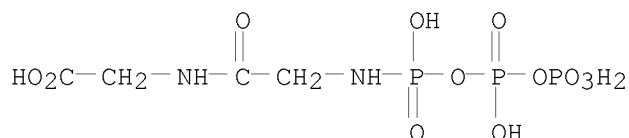
were also investigated at pH 6.0 at 38°. The rates for diglycine and triglycine were .apprx.2- and 4-fold that for glycine, resp. Relevance of the expts. to chemical evolution is discussed.

IT 32177-70-1P

RL: BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation) (formation of, in condensation of glycylglycine with trimetaphosphate)

RN 32177-70-1 CAPLUS

CN Glycine, N-[N-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]glycyl]- (9CI) (CA INDEX NAME)



L38 ANSWER 7 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1987:515646 CAPLUS
DOCUMENT NUMBER: 107:115646
ORIGINAL REFERENCE NO.: 107:18751a,18754a
TITLE: The reaction of cyclo-triphosphate with ethanolamines
AUTHOR(S): Tsuhako, Mitsutomo; Sueyoshi, Chiyoko; Miyajima,
Tohru; Ohashi, Shigeru; Nariai, Hiroyuki; Motooka,
Itaru
CORPORATE SOURCE: Kobe Women's Coll. Pharm., Kobe, 658, Japan
SOURCE: Bulletin of the Chemical Society of Japan (
1986), 59(10), 3091-5
CODEN: BCSJA8; ISSN: 0009-2673
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:115646

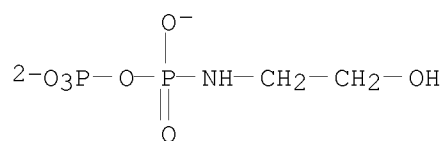
AB The reaction of cyclotriphosphate (P3m) with HOCH2CH2NH2 (MEA),
(HOCH2CH2)2NH (DEA), or (HOCH2CH2)3N (TEA) in an aqueous solution was studied
under various conditions (mixing ratio of MEA, DEA, or TEA to P3m, pH,
temperature, and reaction time). At pH 7-12, P3m reacted with MEA or DEA to
yield tri-, di-, and monophosphate derivs. of MEA or DEA. The phosphoric
acid ester of MEA or DEA was not formed at all. The reactivities of MEA
and DEA to P3m were in the order of MEA > DEA, and TEA did not react with
P3m. The reactivity of P3m with MEA or DEA decreased with the decrease in
the pH, and no reaction took place under acidic conditions. The maximum
yields of triphosphate derivs. of MEA,
N-(2-hydroxyethyl)triphosphoramidate (P3-(N)MEA) and of DEA,
N-bis(2-hydroxyethyl)triphosphoramidate (P3-(N)DEA), were .apprx.75 and
60%, resp., at a 1:1 molar ratio at pH 12, and at room temperature P3-(N)MEA
and P3-(N)DEA easily recyclized to the raw material, P3m, under acidic
conditions. The mechanism of the reaction between P3m and MEA or DEA was
studied.

IT 110086-36-7P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation from cyclotriphosphate and ethanolamine and hydrolysis of)

RN 110086-36-7 CAPLUS

CN Amidodiphosphoric acid, (2-hydroxyethyl)-, ion(3-) (9CI) (CA INDEX NAME)

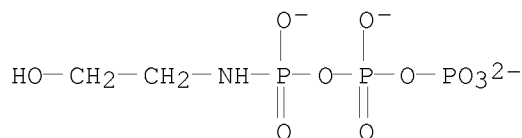


IT 110086-35-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from cyclotriphosphate and ethanolamine)

RN 110086-35-6 CAPLUS

CN P-Amidotriphosphoric acid, N-(2-hydroxyethyl)-, ion(4-) (9CI) (CA INDEX NAME)



L38 ANSWER 8 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1986:497889 CAPLUS

DOCUMENT NUMBER: 105:97889

ORIGINAL REFERENCE NO.: 105:15845a,15848a

TITLE: The reaction of cyclo-triphosphate with L- α - or - β -alanine

AUTHOR(S): Tsuhako, Mitsutomo; Nakajima, Akemi; Miyajima, Tohru; Ohashi, Shigeru; Nariai, Hiroyuki; Motooka, Itaru

CORPORATE SOURCE: Kobe Women's Coll. Pharm., Kobe, 658, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1985), 58(11), 3092-8

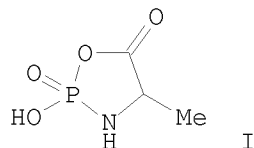
CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 105:97889

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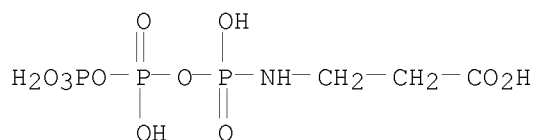
AB The reaction of Na cyclo-triphosphate (P3m) with L- α -alanine at pH 10 and 12 gave (HO)2P(O)NHCHMeCO2H and 1,3,2-oxazaphospholidine I, whereas the reaction of P3m with β -alanine gave only (HO)2P(O)OP(O)(OH)OP(O)(OH)NHCH2CH2CO2H (II). IR and 31P NMR spectroscopies were used to identify the above products. Oligopeptides, e.g. H-(Ala)n-OH (n = 2, 3), were obtained in the reaction of P3m with α -alanine. Under acidic conditions, II recycled to P3m and β -alanine. The mechanisms of the above reactions are discussed.

IT 103897-71-8P

RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in β -alanine reaction with cyclic triphosphate)

RN 103897-71-8 CAPLUS

CN 2,4-Dioxa-6-aza-1,3,5-triphosphanon-9-oic acid, 1,1,3,5-tetrahydroxy-, 1,3,5-trioxide, pentasodium salt (9CI) (CA INDEX NAME)



●5 Na

L38 ANSWER 9 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1984:438543 CAPLUS

DOCUMENT NUMBER: 101:38543

ORIGINAL REFERENCE NO.: 101:6029a,6032a

TITLE: Phosphorylation of N,N-dimethylurea with phosphoryl chloride. N,N-dimethylbiuretophosphate

AUTHOR(S): Lehmann, H. A.; Schaffrath, W.

CORPORATE SOURCE: Sekt. Chem., Tech. Univ. Dresden, Dresden, DDR-8027, Ger. Dem. Rep.

SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1984), 508, 145-8
CODEN: ZAACAB; ISSN: 0044-2313

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 101:38543

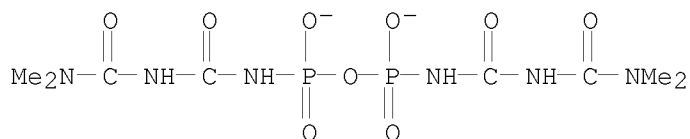
AB The 4:1 reaction of Me₂NCONH₂ and POCl₃ in liquid SO₂ followed by alkaline hydrolysis gave .apprx.80% [Me₂NCONHCONHP(O)O-]2O.

IT 90827-94-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 90827-94-4 CAPLUS

CN P,P'-Diamidodiphosphoric acid, N,N'-bis[[[(dimethylamino)carbonyl]amino]carbonyl]-, ion(2-) (9CI) (CA INDEX NAME)



L38 ANSWER 10 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:522546 CAPLUS

DOCUMENT NUMBER: 99:122546

ORIGINAL REFERENCE NO.: 99:18881a,18884a

TITLE: The reaction of cyclo-triphosphate with ethylenediamine

AUTHOR(S): Tsuchiko, Mitsutomo; Nakahama, Akiko; Ohashi, Shigeru; Nariai, Hiroyuki; Motooka, Itaru

CORPORATE SOURCE: Kobe Women's Coll. Pharm., Kobe, 658, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1983), 56(5), 1372-7
CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal

LANGUAGE: English

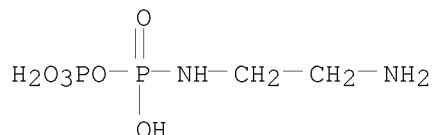
AB The reaction of sodium cyclo-triphosphate with RH (R = NHCH₂CH₂NH₂) gave R₂P(O)- (I), RP₂O₇²⁻ (II), and RP₃O₉³⁻ (III). Formation of .apprx.12% I was favored at pH 10-12 whereas 9% II and 32% III formed at a pH near 10. Ortho-, pyro-, and triphosphate did not react with RH.

IT 87064-03-7P 87064-04-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 87064-03-7 CAPLUS

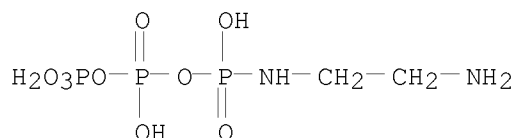
CN Amidodiphosphoric acid, (2-aminoethyl)-, trisodium salt (9CI) (CA INDEX NAME)



●3 Na

RN 87064-04-8 CAPLUS

CN P-Amidotriphosphoric acid, N-(2-aminoethyl)-, tetrasodium salt (9CI) (CA INDEX NAME)



●4 Na

L38 ANSWER 11 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1983:193962 CAPLUS

DOCUMENT NUMBER: 98:193962

ORIGINAL REFERENCE NO.: 98:29389a,29392a

TITLE: Substrate and metal specificity in the enzymic synthesis of cyclic monoterpenes from geranyl and neryl pyrophosphate

AUTHOR(S): Rojas, M. Cecilia; Chayet, Liliana; Portilla, Gloria; Cori, Osvaldo

CORPORATE SOURCE: Fac. Cienc. Bas. Farm., Univ. Chile, Santiago, Chile

SOURCE: Archives of Biochemistry and Biophysics (1983), 222(2), 389-96

CODEN: ABBIA4; ISSN: 0003-9861

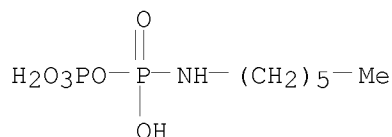
DOCUMENT TYPE: Journal

LANGUAGE: English

AB A partially purified enzyme (carbocyclase) from the flavedo of lemon formed α -pinene, β -pinene, limonene, and γ -terpinene from geranyl pyrophosphate (I) and neryl pyrophosphate. The maximum specific activities obtained were 7.0 and 3.6 nmol/min/mg, resp. Cross-inhibition by the 2 substrates was observed and the ability to utilize neryl

pyrophosphate was almost completely lost with aging. Citronellyl pyrophosphate and dimethylallyl pyrophosphate were the most effective inhibitors of carbocyclase. Isopentenyl pyrophosphate, the monophosphate esters of nerol and geraniol, as well as inorg. pyrophosphate were much less effective inhibitors. The enzyme had an absolute requirement for Mn²⁺. It could be replaced with .apprx.2% effectiveness by Mg²⁺ and Co²⁺. Kinetic studies showed that the observed reaction rate correlates with the calculated concentration of the I-(Mn²⁺)₂ species. Previous evidence with nonenzymic reaction and the results presented support the view that the mechanism of carbocyclase may be the intramol. analog of prenyltransferase.

IT 85684-52-2
 RL: BIOL (Biological study)
 (carbocyclase of lemon inhibition by)
 RN 85684-52-2 CAPLUS
 CN Amidodiphosphoric acid, hexyl- (9CI) (CA INDEX NAME)



L38 ANSWER 12 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1982:455889 CAPLUS

DOCUMENT NUMBER: 97:55889

ORIGINAL REFERENCE NO.: 97:9417a,9420a

TITLE: Oxidative conversion of phosphorothiolates to phosphinyloxysulfonates probably via phosphorothiolate S-oxides

AUTHOR(S): Segall, Yoffi; Casida, John E.

CORPORATE SOURCE: Dep. Entomol. Sci., Univ. California, Berkeley, CA, 94720, USA

SOURCE: Tetrahedron Letters (1982), 23(2), 139-42

CODEN: TELEAY; ISSN: 0040-4039

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Oxidation of phosphorothiolates by m-ClC₆H₄C(O)OOH gave phosphinyloxysulfonates by a novel rearrangement reaction. E.g., RP(O)(OEt)SPr (R = 4,2-BrC₆H₃O) (I) was oxidized by 3 equiv m-ClC₆H₄C(O)OOH at 25° for 1 h to give 25% I, 65-70% of a mixture of RP(O)(OEt)OP(O)(OEt)R and RP(O)(OEt)OS(O₂)Pr, and 5-10% of a mixture of RP(O)(OEt)OC(O)C₆H₄Cl-3, RP(O)(OEt)OH, and HOS(O₂)Pr. The reaction mechanism involves an oxidation, rearrangement, oxidation sequence probably via phosphorothiolate S-oxide and phosphinyloxysulfenate intermediates. The biol. oxidation of phosphorothiolates is discussed in terms of this mechanism.

IT 82452-52-6P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and NMR of phosphorus-31 of)

RN 82452-52-6 CAPLUS

CN P,P'-Diamidodiphosphoric acid, N,N'-diacetyl-, dimethyl ester (9CI) (CA INDEX NAME)

L38 ANSWER 13 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1981:192664 CAPLUS

DOCUMENT NUMBER: 94:192664

ORIGINAL REFERENCE NO.: 94:31541a,31544a

TITLE: The reaction of cyclo-tetraphosphate with L-valine

AUTHOR(S): Tsuhako, Mitsutomo; Fujita, Naoko; Nakahama, Akiko; Matsuo, Tsuneo; Kobayashi, Masamitsu; Ohashi, Shigeru

CORPORATE SOURCE: Kobe Women's Coll. Pharm., Kobe, 658, Japan

SOURCE: Bulletin of the Chemical Society of Japan (1981), 54(1), 289-90
CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal

LANGUAGE: English

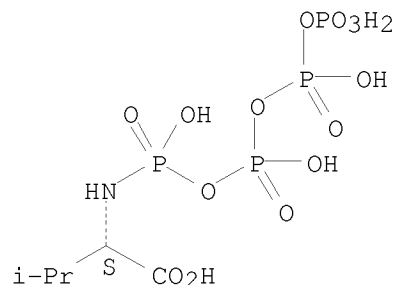
AB The title reaction at pH 12 gave N-phosphovaline in 3.2% yield at room temperature after 91 days or 0.3% yield at 70° after 1 day. The mechanism of the reaction was discussed.

IT 77489-26-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrolysis of)

RN 77489-26-0 CAPLUS

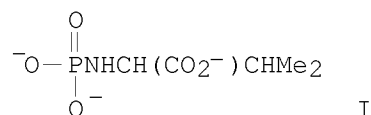
CN L-Valine, N-(1,3,5,7,7-pentahydroxy-1,3,5,7-tetraoxido-2,4,6-trioxa-1,3,5,7-tetraphosphahept-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 14 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1981:66005 CAPLUS
DOCUMENT NUMBER: 94:66005
ORIGINAL REFERENCE NO.: 94:10781a,10784a
TITLE: The reaction of cyclo-triphosphate with L-valine
AUTHOR(S): Tshuko, Mitsutomo; Fujita, Naoko; Nakahama, Akiko;
Matsuo, Tsuneo; Kobayashi, Masamitsu; Ohashi, Shigeru
CORPORATE SOURCE: Kobe Women's Coll. Pharm., Kobe, 658, Japan
SOURCE: Bulletin of the Chemical Society of Japan (
1980), 53(7), 1968-72
CODEN: BCSJA8; ISSN: 0009-2673

DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB The title reaction in aqueous solution at pH 10-12 gave I, which decomposed into

orthophosphate and valine at lower pH. The amount of I reached .apprx.22% at pH 12 and .apprx.9% at pH 10; at pH 10 small amts. of tetraphosphate and pentaphosphate were formed. The disappearance rate of cyclo-triphosphate was 1st order.

IT 76219-82-4P

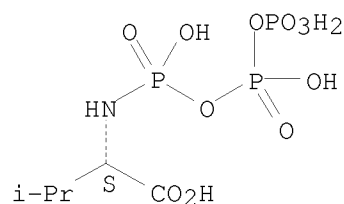
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and decomposition of)

RN 76219-82-4 CAPLUS

CN L-Valine, N-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-
(CA INDEX NAME)

Absolute stereochemistry.



L38 ANSWER 15 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:165858 CAPLUS

DOCUMENT NUMBER: 92:165858

ORIGINAL REFERENCE NO.: 92:26874h,26875a

TITLE: Cyanamidotriphosphates

INVENTOR(S): Feldmann, Walter; Koehler, Helmut

PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Ger. Dem. Rep.

SOURCE: Ger. (East), 9 pp.

CODEN: GEXXA8

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
DD 137715	A1	19790919	DD 1978-206596	19780710 <--
PRIORITY APPLN. INFO.:			DD 1978-206596	A1 19780710

AB Alkali trimetaphosphates are reacted with cyanamide or with mono- or dialkali cyanamide in the molar ratio 1:0.8 to 1:1.2 while the molar ratio of trimetaphosphate to alkali metal introduced by an alkalizing agent is

1:1.8 to 1:2.2 in a medium with 0.3-0.58 L H₂O/mol alkali trimetaphosphate at 15-30° for 0.5-15 days while stirring. After separation of the crystalline alkali triphosphate formed incidentally, the filtrate is crystallized to

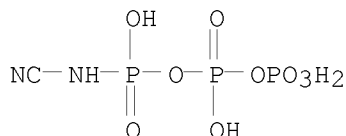
give M₅P₃O₉NCN.1-6H₂O (M = alkali metal). To form the ammonium salt the solution is treated with a cation exchanger and is then crystallized. The alkalizing agent is NaOH or KOH or the alkali salt of a weak acid, e.g. Na₂CO₃ or K₂CO₃. The product, due to its content of cyanamide N and to its complexing ability for multivalent cations is used as a P-N fertilizer with cation binding properties and as an intermediate in the synthesis of polyphosphoric acid derivs. of cyanamide transformation products with flame inhibiting properties. Thus, Na₃P₃O₉, cyanamide, NaOH, and H₂O were reacted for 8 days at room temperature to form Na₅P₃O₉NCN.4H₂O.

IT 68825-06-9P

RL: IMF (Industrial manufacture); PREP (Preparation)
(manufacture of)

RN 68825-06-9 CAPLUS

CN P-Amidotriphosphoric acid, N-cyano-, pentasodium salt (9CI) (CA INDEX NAME)



●5 Na

L38 ANSWER 16 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1980:146238 CAPLUS

DOCUMENT NUMBER: 92:146238

ORIGINAL REFERENCE NO.: 92:23753a,23756a

TITLE: Triphosphoric acid derivatives of cyanamide and urea

AUTHOR(S): Feldmann, W.; Koehler, H.

CORPORATE SOURCE: Zentralinst. Anorg. Chem., DAW, Berlin, DDR-1199, Ger.
Dem. Rep.

SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1979), 458, 74-84

CODEN: ZAACAB; ISSN: 0044-2313

DOCUMENT TYPE: Journal

LANGUAGE: German

AB Ring cleavage of Na cyclotriphosphate (Na₃P₃O₉) by Na₂NCN (8 days at room temperature) gave Na₅P₃O₉NCN which gave, upon treatment with AgNO₃ or NH₄⁺ (cation exchanger), M₅P₃O₉NCN (M = Ag or NH₄, resp.). Treatment of (NH₄)₅P₃O₉NCN with .apprx.0.1 N HCl for 2 h at room temperature, then with NH₄OH

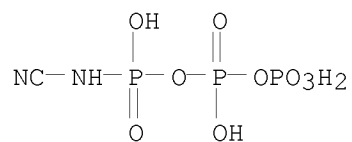
to pH .apprx.9.5 gave (NH₄)₄P₃O₉NHCONH₂.

IT 68825-06-9P 73238-37-6P 73238-38-7P
73238-39-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 68825-06-9 CAPLUS

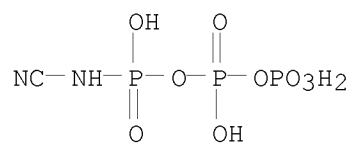
CN P-Amidotriphosphoric acid, N-cyano-, pentasodium salt (9CI) (CA INDEX NAME)



●5 Na

RN 73238-37-6 CAPLUS

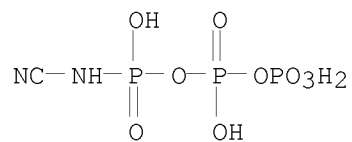
CN P-Amidotriphosphoric acid, N-cyano-, pentasilver(1+) salt (9CI) (CA INDEX NAME)



●5 Ag(I)

RN 73238-38-7 CAPLUS

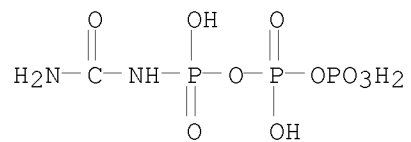
CN P-Amidotriphosphoric acid, N-cyano-, pentaammonium salt (9CI) (CA INDEX NAME)



●5 NH₃

RN 73238-39-8 CAPLUS

CN P-Amidotriphosphoric acid, N-(aminocarbonyl)-, tetraammonium salt (9CI) (CA INDEX NAME)



●4 NH₃

L38 ANSWER 17 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

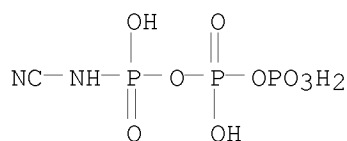
ACCESSION NUMBER: 1979:33168 CAPLUS
DOCUMENT NUMBER: 90:33168
ORIGINAL REFERENCE NO.: 90:5235a,5238a
TITLE: Cyanamidotriphosphate
AUTHOR(S): Feldmann, Walter; Koehler, Helmut
CORPORATE SOURCE: Zentralinst. Anorg. Chem., DAW, Berlin, Ger. Dem. Rep.
SOURCE: Zeitschrift fuer Chemie (1978), 18(10),
371-2
CODEN: ZECEAL; ISSN: 0044-2402
DOCUMENT TYPE: Journal
LANGUAGE: German

AB A concentrated aqueous 1:1 reaction mixture of Na₃P₃O₉ and Na₂NCN after shaking for 1 day underwent ring cleavage to give .apprx.1/2 of the P as crystals of unsubstituted triphosphate, Na₅P₃O₁₀.6H₂O and the other half as a solution containing the linear Na₅P₃O₉NCN.4H₂O (I), which was isolated by evaporation of the H₂O. I can be converted to amorphous Ag₅P₃O₉NCN.xH₂O and to crystalline (NH₄)₅P₃O₉NCN.H₂O. The ³¹P NMR of P₃O₉NCN⁵⁻ shows 3 signals characteristic of end-substituted triphosphate ion. The properties of P₃O₉NCN⁵⁻ are very similar to those of P₃O₁₀⁵⁻.

IT 68825-06-9P
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in reaction of sodium trimetaphosphate with disodium cyanamide)

RN 68825-06-9 CAPLUS

CN P-Amidotriphosphoric acid, N-cyano-, pentasodium salt (9CI) (CA INDEX NAME)



●5 Na

L38 ANSWER 18 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1977:550839 CAPLUS
DOCUMENT NUMBER: 87:150839
ORIGINAL REFERENCE NO.: 87:23869a,23872a
TITLE: Studies on the nutritional effects of some phosphorus compounds. 1. Preliminary study on phytotoxicity and absorption of cyanamide phosphates by rye-seedlings
AUTHOR(S): Allam, N.; Amer, S. A.
CORPORATE SOURCE: Fac. Agric., Cairo Univ., Giza, Egypt
SOURCE: Egyptian Journal of Soil Science (1976),
16(1), 37-45
CODEN: EJSSAF; ISSN: 0302-6701
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Newly proposed P fertilizers were prepared in which one of the amide-H atoms in the amidophosphoric acids was substituted with a cyanide group to obtain Na₆[P₂O₅(NCN)₃], Ca₃[P₃O₃(NCN)₂] [59857-23-7] and Na₂[P₂O₅(NCN)]_n [

64122-46-9]. These nonorthophosphatic P compds. were used along with NaH₂PO₄ and Na₃PO₄ to study their effect on medium pH, phytotoxicity, and P uptake by rye seedlings in a sand culture. The results revealed that the root system of the seedlings buffered their growth medium. Na content up to 4.5 mmol Na per pot did not affect seed germination, but slightly affected P absorption. High pH values depressed P uptake. Increasing the rate of N application could reduce the harmful effect resulting from high pH values and Na concentration on P absorption. Water-soluble Na cyanamidophosphate inhibited germination, in direct proportion to their solubility. This effect was attributed to these compds. per se or to their degradation products. The polymerized cyanamidophosphate showed no

toxic effect and supplied seedlings with P more rapidly than Na₃PO₄ but less rapidly than NaH₂PO₄.

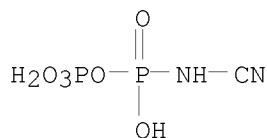
IT 64122-46-9P

RL: PREP (Preparation)

(preparation of for fertilizer)

RN 64122-46-9 CAPLUS

CN Amidodiphosphoric acid, cyano-, disodium salt (9CI) (CA INDEX NAME)



● 2 Na

L38 ANSWER 19 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:440308 CAPLUS

DOCUMENT NUMBER: 85:40308

ORIGINAL REFERENCE NO.: 85:6487a,6490a

TITLE: Pseudo-chalcogen compounds. X. Synthesis of cyanamidophosphates from phosphoryl chlorides

AUTHOR(S): Koehler, H.; Poessel, U.

CORPORATE SOURCE: Sekt. Chem., Martin-Luther-Univ., Halle/Saale, Ger. Dem. Rep.

SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1976), 423(1), 21-6

CODEN: ZAACAB; ISSN: 0044-2313

DOCUMENT TYPE: Journal

LANGUAGE: German

AB Cyanamidolytic reactions of POC₁₃ and P₂O₃Cl₄ with NaNHCN gave POC₁₃-x(NHCN)_x (x = 1, 2) and P₂O₃Cl₄-x(NHCN)_x (x = 1-4), resp. These products are transformed into cyanamidophosphates PO₄-x(NCN)₃- (x = 1, 2) and P₂O₇-x(NCN)_x4- (x = 1-4) by reaction with NaOH. The cyanamidophosphates were precipitated as Ca and Ag salts, separated by chromatog., and characterized by ³¹P NMR.

IT 59857-15-7P 59857-16-8P 59857-26-0P

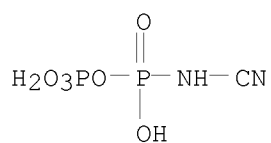
59857-27-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of)

RN 59857-15-7 CAPLUS

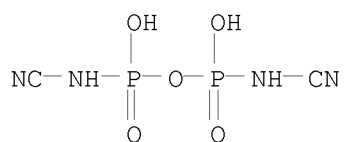
CN Amidodiphosphoric acid, cyano-, calcium salt (1:2) (9CI) (CA INDEX NAME)



●2 Ca

RN 59857-16-8 CAPLUS

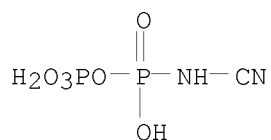
CN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, calcium salt (1:2) (9CI)
(CA INDEX NAME)



●2 Ca

RN 59857-26-0 CAPLUS

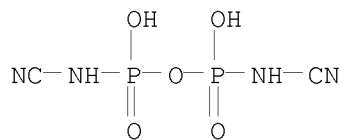
CN Amidodiphosphoric acid, cyano-, tetrasilver(1+) salt (9CI) (CA INDEX NAME)



●4 Ag(I)

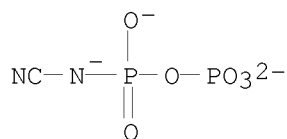
RN 59857-27-1 CAPLUS

CN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, tetrasilver(1+) salt (9CI)
(CA INDEX NAME)

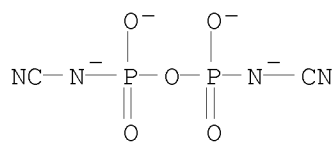


●4 Ag(I)

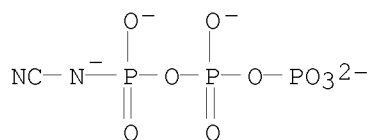
ACCESSION NUMBER: 1976:440307 CAPLUS
 DOCUMENT NUMBER: 85:40307
 ORIGINAL REFERENCE NO.: 85:6487a,6490a
 TITLE: Pseudo-chalcogen compounds. IX. The cyanamidolytic reaction of phosphorus oxide (P4O10). II
 AUTHOR(S): Koehler, H.; Lange, U.
 CORPORATE SOURCE: Sekt. Chem., Martin-Luther-Univ., Halle/Saale, Ger. Dem. Rep.
 SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1976), 423(1), 15-20
 CODEN: ZAACAB; ISSN: 0044-2313
 DOCUMENT TYPE: Journal
 LANGUAGE: German
 AB Cyanamidolytic reactions of P4O10 with NaOH-containing solns. of H2NCN gave primarily the cyanamidodiphosphates P2O7-x(NCN)x4- (x = 1, 2) along with some P3O9(NCN)5-. The products were separated by chromatog. and characterized by 31P NMR. The course of the reaction is discussed.
 IT 59857-11-3P 59857-12-4P 59857-14-6P
59857-15-7P 59857-16-8P 59857-17-9P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 59857-11-3 CAPLUS
 CN Amidodiphosphoric acid, cyano-, ion(4-) (9CI) (CA INDEX NAME)



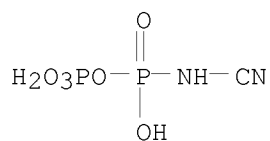
RN 59857-12-4 CAPLUS
 CN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, ion(4-) (9CI) (CA INDEX NAME)



RN 59857-14-6 CAPLUS
 CN P-Amidotriphosphoric acid, N-cyano-, ion(5-) (9CI) (CA INDEX NAME)



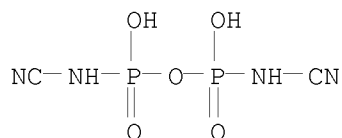
RN 59857-15-7 CAPLUS
 CN Amidodiphosphoric acid, cyano-, calcium salt (1:2) (9CI) (CA INDEX NAME)



●2 Ca

RN 59857-16-8 CAPLUS

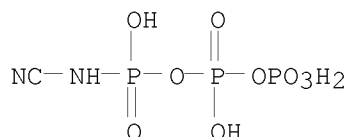
CN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, calcium salt (1:2) (9CI)
(CA INDEX NAME)



●2 Ca

RN 59857-17-9 CAPLUS

CN P-Amidotriphosphoric acid, N-cyano-, calcium salt (2:5) (9CI) (CA INDEX NAME)



●5/2 Ca

L38 ANSWER 21 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:440306 CAPLUS

DOCUMENT NUMBER: 85:40306

ORIGINAL REFERENCE NO.: 85:6487a,6490a

TITLE: Pseudo-chalcogen compounds. VIII. The cyanamidolytic reaction of phosphorus oxide (P4O10). I

AUTHOR(S): Koehler, H.; Uebel, R.; Lange, U.; Poessel, U.

CORPORATE SOURCE: Sekt. Chem., Martin-Luther-Univ., Halle/Saale, Ger. Dem. Rep.

SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1976), 423(1), 1-14

CODEN: ZAACAB; ISSN: 0044-2313

DOCUMENT TYPE: Journal

LANGUAGE: German

AB The pseudochalcogenide character of NCN2- was studied by reaction of P4O10 with Na2NCN in molar ratios 1:4 and 1:2 in the temperature range 150-360°. The reactants in 1:4 ratio gave mixts. of cyanamidodiphosphates, Na4P2O7-x(NCN)x (I), where x = 1-4, the amts. of

the different products depending on temperature The reactants in 1:2 ratio gave I and cyanamidoultraphosphates. The products were separated by precipitation of Ca

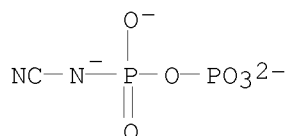
and Ag salts and by chromatog. and characterized by NMR.

IT 59857-11-3P 59857-12-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

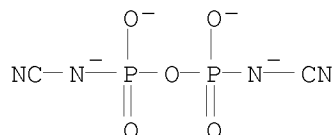
RN 59857-11-3 CAPLUS

CN Amidodiphosphoric acid, cyano-, ion(4-) (9CI) (CA INDEX NAME)



RN 59857-12-4 CAPLUS

CN P,P'-Diamidodiphosphoric acid, N,N'-dicyano-, ion(4-) (9CI) (CA INDEX NAME)



L38 ANSWER 22 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:107034 CAPLUS

DOCUMENT NUMBER: 84:107034

ORIGINAL REFERENCE NO.: 84:17443a,17446a

TITLE: Nitrogen-containing phosphorus compound

INVENTOR(S): Umemura, Misao; Tahara, Satoru; Kohashi, Masaru

PATENT ASSIGNEE(S): Daihachi Chemical Industry Co., Ltd., Japan

SOURCE: Jpn. Tokkyo Koho, 3 pp.

CODEN: JAXXAD

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

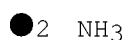
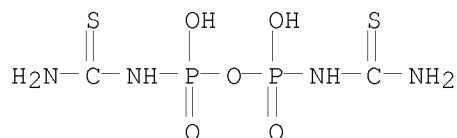
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 50028421	B	19750916	JP 1969-32497	19690425 <--
PRIORITY APPLN. INFO.:			JP 1969-32497	19690425

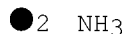
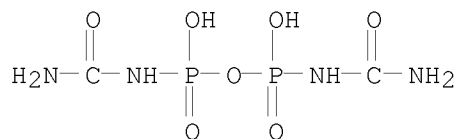
AB N-containing P compds., useful as fire retardants for substances having OH radicals such as cellulosic fibers, are prepared by a reaction between P2O5 [1314-56-3] and urea, thiourea [62-56-6], their alkylated derivs., or their ethylene oxide adducts in an inert solvent, followed by neutralization with a base. Thus, 120 parts urea [57-13-6] was dissolved in 500 parts (Me)3PO4, cooled, and mixed with 142 parts P2O5. Then NH3(g) was passed into the reaction product until saturation A white crystalline product

was collected in 98% yield by filtration, with the correct elemental anal.

for [H₂NCONHP(O)(ONH₄)]₂O [58430-96-9].
 IT 58430-95-8P 58430-96-9P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (fireproofing agents, preparation of)
 RN 58430-95-8 CAPLUS
 CN P,P'-Diamidodiphosphoric acid, N,N'-bis(aminothioxomethyl)-, diammonium
 salt (9CI) (CA INDEX NAME)



RN 58430-96-9 CAPLUS
 CN P,P'-Diamidodiphosphoric acid, N,N'-bis(aminocarbonyl)-, diammonium salt
 (9CI) (CA INDEX NAME)



L38 ANSWER 23 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1973:113464 CAPLUS
 DOCUMENT NUMBER: 78:113464
 ORIGINAL REFERENCE NO.: 78:18211a,18214a
 TITLE: Cyanamidophosphates
 INVENTOR(S): Koehler, Helmut
 SOURCE: Ger. (East), 7 pp.
 CODEN: GEXXA8
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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DD 83117		19710712	DD 1969-143361	19691029 <--

AB An intimate mixt, of 2-6 moles of alkali metal or alkaline earth cyanamides
 and i mole of P4O10 or P4S10 is heated in an inert gas atmospheric and in
 absence
 of H₂O at 150-350° to form compds. of the type MP(NCN) X₂,
 M3P(NCN)2.simeq. X₂, M3P(NCN)X₃, and M4(NCN)X₂, where M is a monovalent
 metal ion and X is O or S. The alkali salt products are very soluble in H₂O

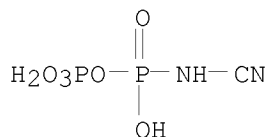
and the Ca salts are insol. They hydrolyze less readily than PO(NH₂)₃ and similar P-N compds. and are useful as fertilizers, lubricants and corrosion inhibitors. In an example, P₄O₁₀ 14.1 and Na₂NCN 17.2 g. were mixed a dry N atmospheric and heated to 200-300°. The heat of reaction gave a melt of Na₄[O₂P(NCN)]₂O.

IT 39382-19-9P

RL: IMF (Industrial manufacture); PREP (Preparation)
(manufacture of)

RN 39382-19-9 CAPLUS

CN Amidodiphosphoric acid, cyano-, calcium salt (1:1) (9CI) (CA INDEX NAME)



● Ca

L38 ANSWER 24 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1973:59677 CAPLUS

DOCUMENT NUMBER: 78:59677

ORIGINAL REFERENCE NO.: 78:9459a,9462a

TITLE: Flame-retardant finishing with
diureidopyrophosphoramides

AUTHOR(S): Okamoto, Kazuyoshi; Tsuji, Hiroaki; Segawa, Yoshitaka

CORPORATE SOURCE: Hyogo Fiber Ind. Training Inst., Japan

SOURCE: Sen'i Kako (1972), 24(10), 651-60

CODEN: SNKAB2; ISSN: 0037-217X

DOCUMENT TYPE: Journal

LANGUAGE: Japanese

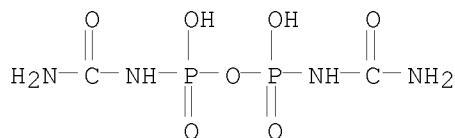
AB The fire resistance of a rayon textile was improved by curing the textile impregnated with diureidopyrophosphoramide (I) at 165.deg. for 5 min. The tensile strength of the textile impregnated with I in the presence of a mixture of urea, NH₄Cl, and trimethylolmelamine was greater than that of the textile treated with I only. The washfastness of the textile fire resistance was improved by treating the textile containing I with 1% aqueous formic acid [64-18-6] solution

IT 40375-12-0

RL: USES (Uses)
(rayon fireproofing by)

RN 40375-12-0 CAPLUS

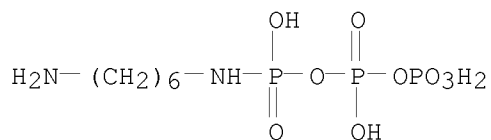
CN P,P'-Diamidodiphosphoric acid, N,N'-bis(aminocarbonyl)- (CA INDEX NAME)



L38 ANSWER 25 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

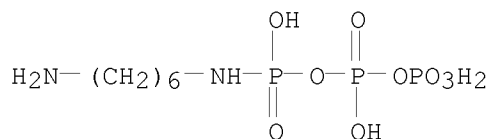
ACCESSION NUMBER: 1972:525813 CAPLUS

DOCUMENT NUMBER: 77:125813
 ORIGINAL REFERENCE NO.: 77:20733a,20736a
 TITLE: Interaction of sodium trimetaphosphate with hexamethylenediamine
 AUTHOR(S): Dombrovskii, N. M.; Dorosh, A. I.
 CORPORATE SOURCE: Chernovits. Gos. Univ., Chernovtsy, USSR
 SOURCE: Zhurnal Neorganicheskoi Khimii (1972), 17(7), 1892-7
 CODEN: ZNOKAQ; ISSN: 0044-457X
 DOCUMENT TYPE: Journal
 LANGUAGE: Russian
 GI For diagram(s), see printed CA Issue.
 AB HO[P(O)(ONa)O]2P(O)(ONa)NH(CH2)6NH2 (I) was prepared. by reaction of crystalline II6H2O with an aqueous solution of H2N(CH2)6NH2 10-15 min at 55-65°. The Ea of the reaction is 16.4 kcal/mole. I is stable in basic but dissocs. in neutral or acidic solns. to form the cyclic trimetaphosphate. The mechanism of recyclization is discussed.
 IT 37817-96-2P 37817-97-3P 37817-98-4P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 37817-96-2 CAPLUS
 CN P-Amidotriphosphoric acid, N-(6-aminohexyl)-, trisodium salt (9CI) (CA INDEX NAME)



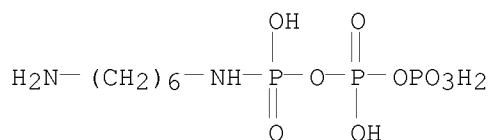
●3 Na

RN 37817-97-3 CAPLUS
 CN P-Amidotriphosphoric acid, N-(6-aminohexyl)-, barium salt (1:2) (9CI) (CA INDEX NAME)



●2 Ba

RN 37817-98-4 CAPLUS
 CN P-Amidotriphosphoric acid, N-(6-aminohexyl)-, tetrasilver(1+) salt (9CI) (CA INDEX NAME)



●4 Ag(I)

L38 ANSWER 26 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1971:406296 CAPLUS

DOCUMENT NUMBER: 75:6296

ORIGINAL REFERENCE NO.: 75:1051a,1054a

TITLE: Mechanism of the trimetaphosphate-induced peptide synthesis

AUTHOR(S): Chung, N. M.; Lohrmann, R.; Orgel, L. E.; Rabinowitz, J.

CORPORATE SOURCE: Salk Inst. Biol. Stud., San Diego, CA, USA

SOURCE: Tetrahedron (1971), 27(6), 1205-10

CODEN: TETRAB; ISSN: 0040-4020

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The formation of peptides from glycine in the presence of trimetaphosphate proceeds mainly via peptide N-phosphates as intermediates. The interaction of glycine with trimetaphosphate leads first to the formation of a cyclic acylphosphoramidate and pyrophosphate. The cyclic compound then reacts with the free amine group of glycine or diglycine to give diglycine N-phosphate or triglycine N-phosphate.

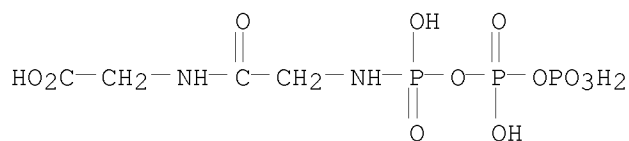
IT 32177-70-1P

RL: FORM (Formation, nonpreparative); PREP (Preparation)

(formation of, from glycylglycine reaction with trimetaphosphate)

RN 32177-70-1 CAPLUS

CN Glycine, N-[N-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]glycyl]- (9CI) (CA INDEX NAME)



L38 ANSWER 27 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1966:448467 CAPLUS

DOCUMENT NUMBER: 65:48467

ORIGINAL REFERENCE NO.: 65:9111f-g

TITLE: Antistatic thermoplastic polymers

PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.

SOURCE: 12 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

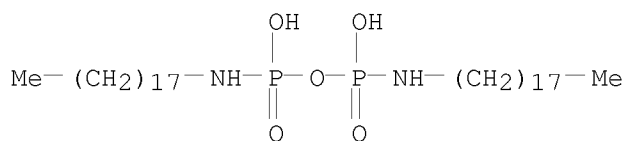
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6512433		19660328	NL 1965-12433	19650924 <--
BE 670159			BE	
PRIORITY APPLN. INFO.:			DE	19640926

AB Polymers are rendered antistatic by blending with 0.1 to 7% by weight of linear or cross-linked N-alkylsubstituted phosphoramidate polymers (I) in which the P atoms are linked by N or O and the P/N ratio is between 1-0.5. One substituent on N is H or C1-4 alkyl, the other a C12-18 alkyl group. I is prepared by reacting P2O5 with an excess (100 to 300 mole %) of the corresponding primary or secondary amine. Thus, 0.8 mole P2O5 is heated at 160° in the presence of 2 moles of a mixture of MeNHC18H37 and MeNHC16H33 (50:50 by weight) to yield a yellow mass (II) which is cooled and ground. Low density polyethylene-polyacetal resin and butadiene-styrene copolymer, blended with 0.2, 1 and 4% by weight of II give a negative ash test.

IT 14513-30-5
(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 14513-30-5 CAPLUS

CN P,P'-Diamidopyrophosphoric acid, N,N'-dioctadecyl- (6CI, 7CI, 8CI) (CA INDEX NAME)



L38 ANSWER 28 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1966:448466 CAPLUS

DOCUMENT NUMBER: 65:48466

ORIGINAL REFERENCE NO.: 65:9111d-f

TITLE: Hardeners for epoxy resins

PATENT ASSIGNEE(S): Imperial Chemical Industries Ltd.

SOURCE: 8 pp.

DOCUMENT TYPE: Patent

LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

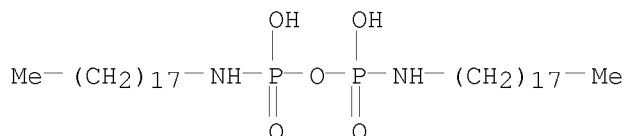
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6506649		19651129	NL 1965-6649	19650525 <--
BE 664556			BE	
GB 1033697			GB	
PRIORITY APPLN. INFO.:			GB	19640527

AB Hardeners (I) and the corresponding 5-ring derivs. (II), their anhydrides and their partially esterified products were found to harden epoxy resins (III) to give products with good phys. properties. Because of the excellent solubilities of I and II in III even in the presence of conventional hardeners no catalysts are necessary. Thus, 100 parts (by weight) Epikote 828 (IV) was mixed with 40 parts I during 5 min. at 195°, the mixture kept 24 hrs. at 150° and 2 hrs. at 200° to give a slightly yellow product with good mech. and elec. properties. Hardening of IV (100 parts) could also be accomplished by mixing with 19 parts II and 38 parts 1,2-cyclohexanedicarboxylic anhydride

at 190° followed by heating at 80-100° during 16 hrs. to give an almost colorless product.

IT 14513-30-5
(Derived from data in the 7th Collective Formula Index (1962-1966))
RN 14513-30-5 CAPLUS
CN P,P'-Diamidopyrophosphoric acid, N,N'-dioctadecyl- (6CI, 7CI, 8CI) (CA INDEX NAME)



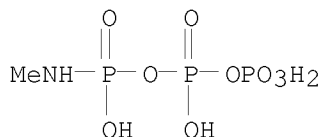
L38 ANSWER 29 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1965:48855 CAPLUS
DOCUMENT NUMBER: 62:48855
ORIGINAL REFERENCE NO.: 62:8638f-g
TITLE: Condensed phosphates and arsenates. XLII. Cleavage of trimetaphosphate ions, [P3O9]3-, by NH3 and methylamine, and recyclization of the formed amidotriphosphates

AUTHOR(S): Feldmann, W.
CORPORATE SOURCE: Deut. Akad. Wiss., Berlin
SOURCE: Zeitschrift fuer Chemie (1965), 5(1), 26-7
CODEN: ZECEAL; ISSN: 0044-2402

DOCUMENT TYPE: Journal
LANGUAGE: German

AB cf. CA 61, 11591h. Na3[P3O9] was aminated by mixing. with NH3, MeNH2, or Me2NH to give [P3O9NH2]4- (I), [P3O9NHMe]4- (II), or [P3O9NMe2]4- (III), resp., but was not aminated with Me3N. I, II, or III were isolated as the Ag salts by treating with AgNO3 solution. The Ag salts were recyclized to I, II, or III by treating with NaCl solution. The amination and recyclization rates were studied kinetically.

IT 3058-29-5
(Derived from data in the 7th Collective Formula Index (1962-1966))
RN 3058-29-5 CAPLUS
CN P-Amidotriphosphoric acid, N-methyl-, silver salt (8CI, 9CI) (CA INDEX NAME)



●_x Ag(x)

L38 ANSWER 30 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1965:48854 CAPLUS
DOCUMENT NUMBER: 62:48854
ORIGINAL REFERENCE NO.: 62:8638d-f

TITLE: Analysis of a mixture of some anions using reactions leading to formation of lead fluorohalides

AUTHOR(S): Talipov, Sh. T.; Podgornova, V. S.

SOURCE: Doklady Akademii Nauk UzSSR (1964), 21(10), 41
CODEN: DANUAO; ISSN: 0134-4307

DOCUMENT TYPE: Journal

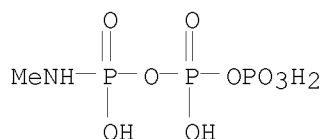
LANGUAGE: Russian

AB Separation of Cl⁻, Br⁻, and I⁻ from SCN⁻ by precipitation of the first 3 ions as PbFCI, PbFBr, and PbFI with NaF and Pb(NO₃)₂ solns., was investigated. A solution containing Cl⁻, Br⁻, I⁻, and SCN⁻ (3 drops) was first treated with NaF solution (6-9 drops), the mixture was slightly warmed at 30-40° then Pb(NO₃)₂ solution (10-12 drops) was added until the precipitation was completed. The resulting mixture was thoroughly stirred with a glass rod then centrifuged. The precipitate contained PbFCI, PbFBr, and PbFI and the solution SCN⁻. The precipitate was washed with cold water until the washings were free from SCN⁻, then dissolved in a warm saturated NH₄OAc solution (20-5 drops). A solution of 2N Na₂SO₄ (or H₂SO₄) to precipitate all Pb²⁺ was added. The precipitate was filtered and discarded and the filtrate retained for the determination of Cl, Br, and I.

IT 3058-29-5
(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 3058-29-5 CAPLUS

CN P-Amidotriphosphoric acid, N-methyl-, silver salt (8CI, 9CI) (CA INDEX NAME)



●x Ag(x)

L38 ANSWER 31 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1964:452983 CAPLUS

DOCUMENT NUMBER: 61:52983

ORIGINAL REFERENCE NO.: 61:9161f-h

TITLE: Condensed phosphates and arsenates. XL. N-methyl- and N-ethylamidotriphosphate, (P₃O₉NHCH₃)⁴⁻ and (P₃O₉NHC₂H₅)⁴⁻

AUTHOR(S): Feldmann, W.; Thilo, E.

CORPORATE SOURCE: Deut. Akad. Wiss., Berlin

SOURCE: Zeitschrift fuer Anorganische und Allgemeine Chemie (1964), 327(3-4), 159-64
CODEN: ZAACAB; ISSN: 0044-2313

DOCUMENT TYPE: Journal

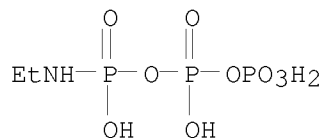
LANGUAGE: Unavailable

AB cf. CA 61, 8968g. Paper chromatography showed that aminolysis of P₃O₉³⁻ (I) produced P₃O₉NHR⁴⁻ when the RNH₂:I ratio was 2. For a ratio of 4.06, further aminolysis was observed. Ag₄(P₃O₉NHMe) and Ag₄(P₃O₉NHEt).H₂O can be precipitated from amine-containing Na₃P₃O₉ solns. Solns. of the corresponding

alkali salts can be made by treatment of the Ag salts with alkali chloride; precipitation of impure and amorphous Na salts can be effected with MeOH

and of crystalline $\text{Li}_4(\text{P}_3\text{O}_9\text{NHMe}) \cdot 3\text{H}_2\text{O}$ with acetone. Aqueous solns. of $(\text{NH}_4)_4(\text{P}_3\text{O}_9\text{NHMe})$ and $(\text{NH}_3\text{Me})(\text{P}_3\text{O}_9\text{NHMe})$ decompose by evolving NH_3 or MeNH_2 and reforming I. In neutral and acid solns. $(\text{P}_3\text{O}_9\text{NH}_2)_4^-$ (II) is more stable than $(\text{P}_3\text{O}_9\text{NHMe})_4^-$ (III). In acid solution, II, $\text{P}_3\text{O}_9\text{NH}_4^+$, and III are quant. converted to I.

IT 93967-07-8P, Amidotriphosphoric acid, ethyl-, silver salt
857366-33-7P, Methylamine, methylamidotriphosphate (4:1)
859039-50-2P, Amidotriphosphoric acid, methyl-, sodium salt
859039-52-4P, Amidotriphosphoric acid, methyl-, lithium salt
859039-55-7P, Amidotriphosphoric acid, methyl-, ammonium salt
RL: PREP (Preparation)
(preparation of)
RN 93967-07-8 CAPLUS
CN Amidotriphosphoric acid, ethyl-, Ag salt (7CI) (CA INDEX NAME)

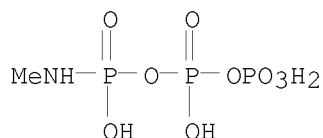


●4 Ag(I)

RN 857366-33-7 CAPLUS
CN Methylamine, methylamidotriphosphate (4:1) (7CI) (CA INDEX NAME)

CM 1

CRN 807260-57-7
CMF C H8 N O9 P3

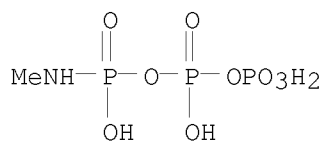


CM 2

CRN 74-89-5
CMF C H5 N

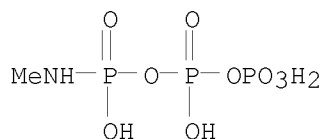
$\text{H}_3\text{C}-\text{NH}_2$

RN 859039-50-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



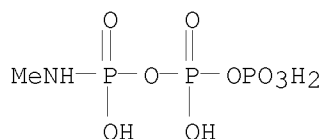
● Na

RN 859039-52-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



● Li

RN 859039-55-7 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



● NH₃

L38 ANSWER 32 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1963:26714 CAPLUS

DOCUMENT NUMBER: 58:26714

ORIGINAL REFERENCE NO.: 58:4401b-f

TITLE: Tautomerism of phosphamidines

AUTHOR(S): Kabachnik, M. I.; Gilyarov, V. A.; Popov, E. M.

CORPORATE SOURCE: Inst. Heteroorg. Compds., Moscow

SOURCE: Zhurnal Obshchei Khimii (1962), 32, 1598-604

CODEN: ZOKHA4; ISSN: 0044-460X

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. CA 54, 19555a. Infrared spectra were reported for a series of compds. with the P(:NR)NHR group, in a search for detection of possible tautomerism of a prototropic nature between the two nitrogenous groups.

This phenomenon appeared to have been confirmed and the position of equilibrium between the 2 forms was shown to depend on the electrophilic properties of R groups. The study consisted in determination of the characteristic frequency of

the carbonyl group in (EtO)₂P(:NR)NHAc, where R = Ph, Ac, or PO(OEt)₂; the

carbonyl frequencies in these were 1580 and 1600; 1588, 1609, 1653 and 1704; and 1710 cm.⁻¹, resp., while the P:N frequencies were 1380, 1364, and 1338 (and 1367), resp. This indicated the expected gradation of the case of protonation of the substituted N atom, indicative of tautomeric equilibrium. The infrared carbonyl bands were found to be as follows in authentic imides: (PrO)3P:NAC 1618 (P:N 1365); (EtO)3P:NCOEt 1616 (P:N 1380; the substance, b1 103-4°, n_{20D} 1.4360, d₂₀ 1.0557); (EtO)2PPh:NAC 1602 (P:N 1365); (PrO)2PEt:NAC 1606 (P:N 1360). All these carbonyl frequencies were in 1600-20 cm.⁻¹ region, while compds. with the P(O)NHCO group had these frequencies in 1700 cm.⁻¹ region: (EtO)2P(O)NHAc 1710, EtOPet(O)NHAc 1695, (EtO)PEt(O)NHAc 1700 cm.⁻¹. Thus, the acylated imido group could be identified by the carbonyl frequency of about 1700 cm.⁻¹. Addition of AcN3 to (EtO)2PNHPh in Et2O at 0-5° gave (EtO)2P(NHPh):NAC, b0.007 85-6°, n_{20D} 1.5200, d₂₀ 1.1356; the same substance, b0.0001 79-80°, 1.5175, 1.1365, formed from (EtO)2PHNAC and PhN3, thus confirming the tautomerism shown above. Similarly was prepared (EtO)2P(NHPh):NC6H4NO2-p, m. 103-4.5°, or 102-3°; (EtO)2P(NHAc):NP(O)(OEt)2, b0.00005 93-5°, 1.4602, 1.1862. (PrO)3P and AcN3 gave (PrO)3P:NAC, b0.25 69°, 1.4419, 1.0213. AcN3 and PhP(OEt)2 gave (EtO)2PPh:NAC, b0.35 96-7°, 1.5120, 1.1126. Similarly were prepared: (EtO)2P(NHAc):NAC, b0.0004 62-4°, 1.4680, 1.1860; (PrO)2PEt:NAC, b0.0004 66-7°, 1.4490, 1.0041; (EtO)2P(NMePh):NAC, b0.0001 52-4°, 1.5135, 1.1295. (EtO)2POP(OEt)2 and p-O2NC6H4NH2 under N 2 days gave after concentration in vacuo some

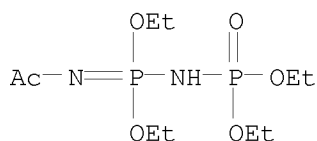
(EtO)2PHO

and a residue of 63.3% (EtO)2PNHC6H4NO2-p, m. 40-2°, a very hygroscopic solid. The results indicated that the labile proton tended to appear at the N atom attached to the Ph group in competition with the NAC grouping, while in the competition between an Ac group and a phosphoryl group, the former acquired the proton at its attached N atom.

IT 91135-25-0P, Phosphoramidic acid,
(acetamidodiethoxyphosphoranylidene)-, diethyl ester
RL: PREP (Preparation)
(preparation of)

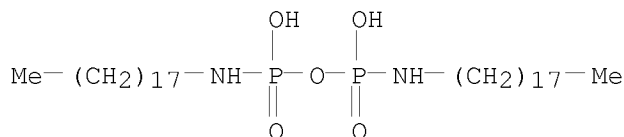
RN 91135-25-0 CAPLUS

CN Phosphoramidic acid, (acetamidodiethoxyphosphoranylidene)-, diethyl ester
(7CI) (CA INDEX NAME)



L38 ANSWER 33 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1958:25633 CAPLUS
DOCUMENT NUMBER: 52:25633
ORIGINAL REFERENCE NO.: 52:4679a-c
TITLE: Phosphoric acid diesters
INVENTOR(S): Yamazaki, Riichiro
PATENT ASSIGNEE(S): Kyoeisha Yushi Kagaku Kogyo Co., Ltd.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 32000960	B4	19570213	JP	<--
AB	Me(CH ₂) ₁₇ NH ₂ 100 and P ₂ O ₅ 20 heated 3 hrs. at 80° and the P ₂ O ₅ , on the bottom removed gave [Me(CH ₂) ₁₇ NHPO(OH)] ₂ O (I) 118 parts, m. 73°, d ₇₃ 1.16, n _{40D} 1.3821; II treated dropwise with Me ₂ C(OH)NH ₂ 19-20 parts and heated at 120° yielded 80-5% Me(CH ₂) ₁₇ NHPO(OH)OCMe ₂ NH ₂ (II), m. 160° (decomposition). Similarly, dodecyl alc., P ₂ O ₅ , and HOC ₂ H ₄ NH ₂ yielded 80-5% C ₁₂ H ₂₅ OPO(OH)OC ₂ H ₄ NH ₂ (III), m. 160° (decomposition); stearylamine, P ₂ O ₅ , and N(C ₂ H ₄ OH) ₃ yielded 80-5% C ₁₇ H ₃₅ CONHPO(OH)OC ₂ H ₄ N(C ₂ H ₄ OH) ₂ (IV), m. 160° (decomposition). Urea 15 and formalin 30 parts was treated with NH ₄ OH to pH 7.5 and heated 2 hrs. at 40° to obtain an initial condensate; this treated with II, III or IV 2 in H ₂ O 53 parts, serge cloth immersed in this resin solution, rinsed, dried, and heated 5 min. at 140° gave H ₂ O-repellent and softened cloth.				
IT	<u>14513-30-5P</u> , P,P'-Diamidopyrophosphoric acid, N,N'-dioctadecyl- RL: PREP (Preparation) (preparation of)				
RN	14513-30-5 CAPLUS				
CN	P,P'-Diamidopyrophosphoric acid, N,N'-dioctadecyl- (6CI, 7CI, 8CI) (CA INDEX NAME)				



L38 ANSWER 34 OF 34 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1950:58122 CAPLUS

DOCUMENT NUMBER: 44:58122

ORIGINAL REFERENCE NO.: 44:11011d-e

TITLE: Stabilization of insecticides by aromatic azomethines

INVENTOR(S): Smith, Herschel G.; Hill, Mark L.; Cantrell, Troy L.

PATENT ASSIGNEE(S): Gulf Oil Corp.

DOCUMENT TYPE: Patent

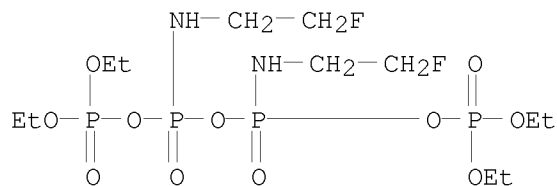
LANGUAGE: Unavailable

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 2522311		19500912	US 1948-27828	19480518 <--
AB	Compds., such as N-benzylideneaniline, N-benzylidene-3,5-xylidine, N-furfurylideneaniline, and N-cinnamylideneaniline, in amts. of 0.2-1.0% added to a 6% kerosene solution of DDT prevented settling, and in amts. of 0.2-0.5% in a 0.1% kerosene solution of pyrethrin prevented settling when the solution was exposed to ultraviolet light. The compds. also synergized the toxic effects of pyrethrins.				
IT	<u>830322-03-7P</u> , Diamidotetraphosphoric acid, N,N'-bis(2-fluoroethyl)-, hexaethyl ester RL: PREP (Preparation) (preparation of)				
RN	830322-03-7 CAPLUS				
CN	Diamidotetraphosphoric acid, N,N'-bis(2-fluoroethyl)-, hexaethyl ester				

(5CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 16:23:47 ON 30 DEC 2008)

FILE 'REGISTRY' ENTERED AT 16:24:03 ON 30 DEC 2008

L1 SCREEN 1942 AND 1992 AND 2006 AND 2016
L2 STRUCTURE UPLOADED
L3 QUE L2 AND L1
L4 0 S L3 SSS SAM
L5 0 S L2 SSS SAM

FILE 'REGISTRY' ENTERED AT 16:27:13 ON 30 DEC 2008

L6 SCREEN 1942 AND 1992 AND 2006 AND 2016
L7 STRUCTURE UPLOADED
L8 QUE L7 AND L6
L9 0 S L8 SSS SAM
L10 0 S L7 SSS SAM
L11 5 S L7 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:28:19 ON 30 DEC 2008

L12 4 S L11
L13 1 S L12 AND PY<=2004

FILE 'MARPAT' ENTERED AT 16:29:09 ON 30 DEC 2008

L14 19 S L11 SSS SAM
L15 319 S L11 SSS FULL

FILE 'CAPLUS' ENTERED AT 16:29:51 ON 30 DEC 2008

L16 319 S L15
L17 243 S L16 AND PY<=2004
L18 16 S L17 AND PHOSPHORAM?

FILE 'REGISTRY' ENTERED AT 17:21:25 ON 30 DEC 2008

L19 STRUCTURE UPLOADED
L20 22 S L19 SSS SAM

FILE 'STNGUIDE' ENTERED AT 17:23:29 ON 30 DEC 2008

FILE 'REGISTRY' ENTERED AT 17:23:57 ON 30 DEC 2008

L21 STRUCTURE UPLOADED
L22 19 S L21 SSS SAM
E P-AMIDOTRIPHOSPHORIC ACID, N-CYANO-/CN
L23 1 S E3

FILE 'CAPLUS' ENTERED AT 17:27:08 ON 30 DEC 2008

L24 0 S L23

FILE 'REGISTRY' ENTERED AT 17:27:24 ON 30 DEC 2008

FILE 'STNGUIDE' ENTERED AT 17:27:33 ON 30 DEC 2008

FILE 'REGISTRY' ENTERED AT 17:27:38 ON 30 DEC 2008

L25 E P,P'-DIAMIDODIPHOSPHORIC ACID, N,N'-DICYANO-/CN
 1 S E19
L26 E 3,5,7,9,11-PENTAAZA-4,6,8,10-TETRAPHOSPHATRIDECANEDIOIC ACID,
 1 S E4

FILE 'CAPLUS' ENTERED AT 17:29:23 ON 30 DEC 2008

L27 1 S L26

FILE 'STNGUIDE' ENTERED AT 17:29:38 ON 30 DEC 2008

FILE 'CAPLUS' ENTERED AT 17:32:15 ON 30 DEC 2008

L28 2194 S PHOSPHORAMIDATE NOT (NUCLEO!IDE)
L29 1855 S L28 AND PY<=2003
L30 5 S \L29 AND (T CELLS)
L31 0 S L29 AND (T CELLS)

FILE 'REGISTRY' ENTERED AT 17:43:03 ON 30 DEC 2008

L32 SCREEN 1838
L33 STRUCTURE UPLOADED
L34 QUE L33 NOT L32
L35 3 S L34 SSS SAM
L36 82 S L34 SSS FULL

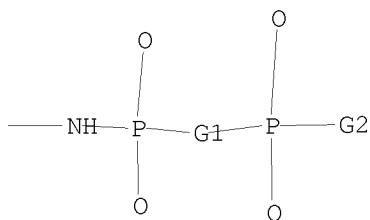
FILE 'CAPLUS' ENTERED AT 17:44:09 ON 30 DEC 2008

L37 43 S L36
L38 34 S L37 AND PY<=2003

=> d 133

L33 HAS NO ANSWERS

L33 STR



G1 O,N

G2 C,O,N

Structure attributes must be viewed using STN Express query preparation.

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

188.38	750.20
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

-27.20

-43.20

SESSION WILL BE HELD FOR 120 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 17:45:18 ON 30 DEC 2008